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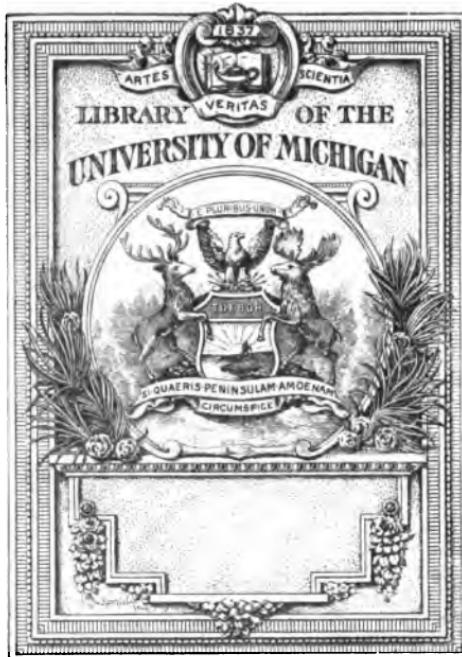
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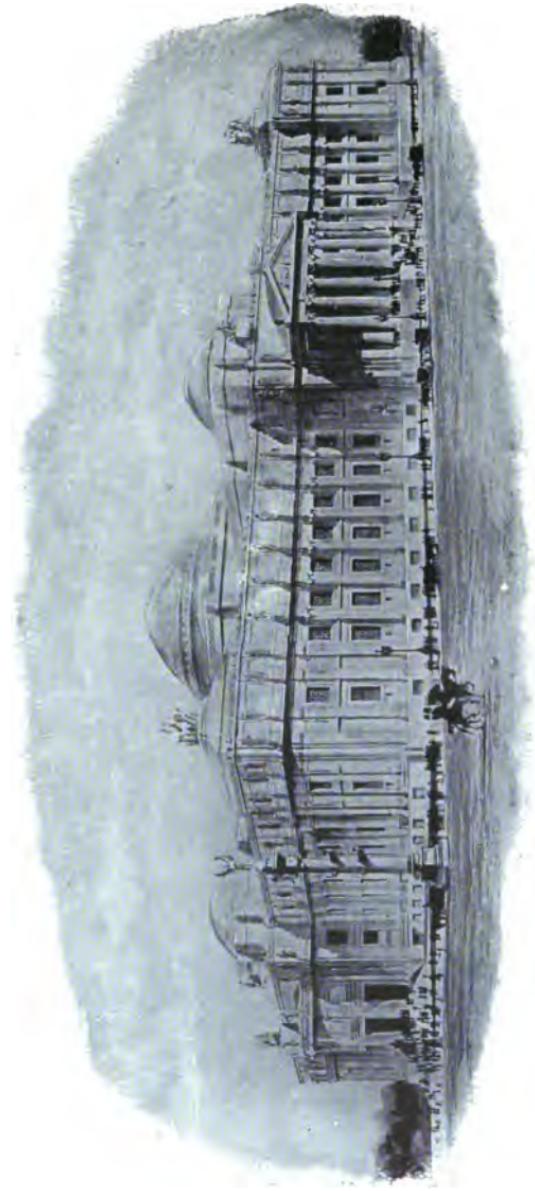
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## CONTENTS

	PAGE
BOARD OF TRUSTEES.....	9
COMMITTEES OF THE BOARD.....	10
PAST OFFICERS OF THE BOARD.....	12
COUNCIL OF ASSOCIATE MEMBERS.....	13
COMMITTEES OF ASSOCIATE MEMBERS.....	13
OFFICERS, CURATORS, AND ASSISTANTS.....	15
BENEFATOR .....	18
PAST HONORARY MEMBERS.....	19
HONORARY MEMBERS .....	20
PAST FELLOWS .....	21
FELLOWS .....	21
PATRONS .....	22
PERMANENT MEMBERSHIPS .....	22
LIFE MEMBERSHIPS .....	25
CORRESPONDING OR NON-RESIDENT MEMBERS....	30
ASSOCIATE MEMBERS .....	38
<b>In Memoriam.....</b>	<b>105</b>
A BRIEF HISTORY OF THE INSTITUTE.....	107
TABLES SHOWING GROWTH OF THE INSTITUTE....	138
WORK OF THE YEAR.....	141
EXHIBITIONS BY DEPARTMENTS.....	144

WORK OF THE DEPARTMENTS:	PAGE
ARCHÆOLOGY .....	144
ARCHITECTURE .....	144
ASTRONOMY .....	148
BOTANY .....	152
CHEMISTRY .....	156
DOMESTIC SCIENCE .....	158
ELECTRICITY .....	161
ENGINEERING .....	163
ENTOMOLOGY .....	164
ETHNOLOGY .....	168
FINE ARTS .....	172
GEOGRAPHY .....	181
GEOLOGY .....	185
LAW .....	188
MATHEMATICS .....	190
MICROSCOPY .....	192
THE MICROSCOPICAL EXHIBITION.....	194
MINERALOGY .....	195
MUSIC .....	198
PAINTING .....	209
SCHOOL CALENDAR .....	210
PEDAGOGY .....	213
THE SCHOOL OF PEDAGOGY.....	219
PHILOLOGY .....	227
PHILOSOPHY .....	239

WORK OF THE DEPARTMENTS—( <i>Continued</i> ).	PAGE
PHOTOGRAPHY .....	240
THE PHOTOGRAPHIC EXHIBITION.....	243
PHYSICS .....	247
POLITICAL SCIENCE .....	249
PSYCHOLOGY .....	252
ZOOLOGY .....	253
SECTION ON PHILATELY.....	255
THE DEPARTMENT LIBRARIES.....	256
MEMBERSHIP OF DEPARTMENTS.....	259
THE BIOLOGICAL LABORATORY.....	260
THE MUSEUM, ART DEPARTMENT.....	267
THE NATURAL SCIENCE DEPARTMENTS.....	271
THE CHILDREN'S MUSEUM.....	277
MUSEUM COLLECTION FUND, 1905.....	279
SPECIAL ENDOWMENT FUNDS.....	285
TREASURER'S ANNUAL REPORT.....	288



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PETER H. VAN DINE, Night Watchman, Museum Building.

WILLIAM GALLAGHER, Attendant, Museum Building.

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FREDERICK ALTMAN, Second Assistant Taxidermist.

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GEORGE W. HALL, Attendant, Museum.

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Mrs. MAGGIE LYNCH, Cleaner, Museum Building.

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MICHAEL MULLINS, Messenger, Museum Building.

WALTER F. ABBOTT, Elevator Operator, Museum Building.

CONRAD MOHR, Janitor, Children's Museum.

Mrs. MAGGIE MURTHA, Cleaner, Children's Museum.

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1890	Prof. W. LE CONTE STEVENS, Ph.D.	Univ. of Va.
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JAMES A. H. BELL	- - - - -	1899-1901
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HENRY K. SHELDON	- - - - -	1899-1902
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RICHARD S. BARNES	RICHARD S. BARNES
JOHN S. JAMES	JOHN S. JAMES

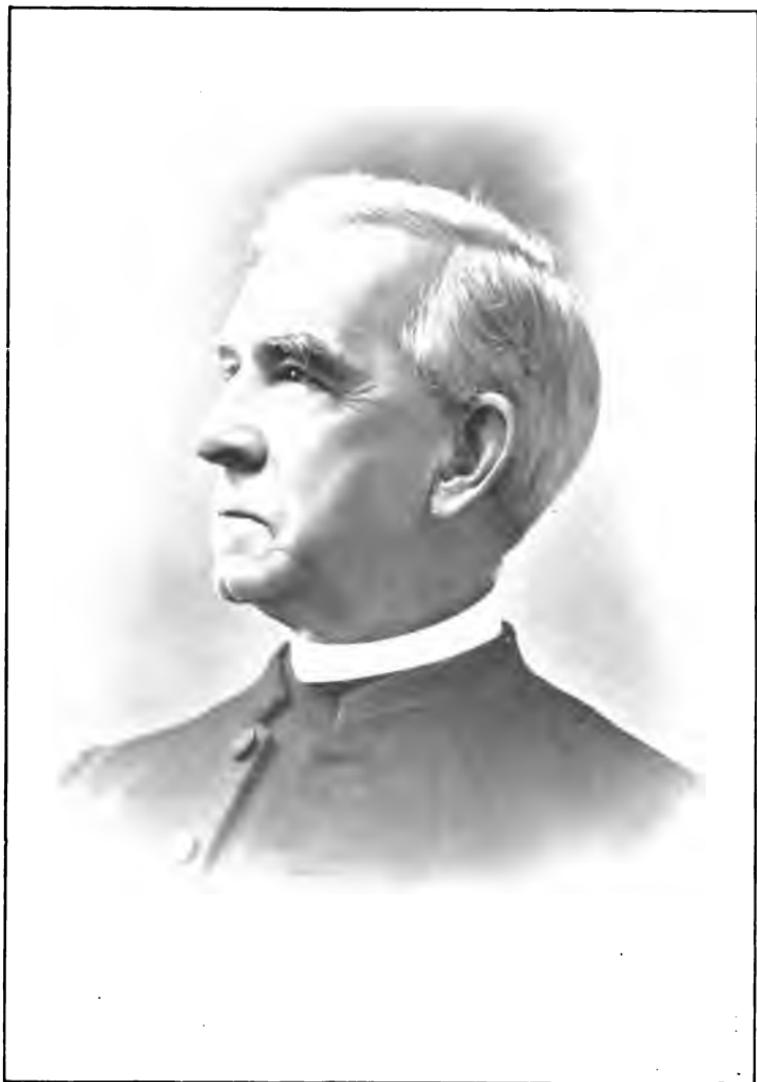
1891

### *Held by*

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GEORGE M. OLcott	GEORGE M. OLcott
HENRY HENTZ	HENRY HENTZ
MARK HOYT	Mrs. MARK HOYT
ABRAHAM ABRAHAM	ABRAHAM ABRAHAM
Col. ROBERT B. WOODWARD	Col. ROBERT B. WOODWARD



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 Hon. FELIX CAMPBELL  
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 JOHN GOOD  
 MISS MARY CAMPBELL  
 FREDERICK LOESER  
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HENRY D. POLHEMUS	Mrs. HENRY D. POLHEMUS
ALEXANDER M. WHITE, JR.	ALEXANDER M. WHITE, JR.
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WILLIAM CARY SANGER, JR.	WILLIAM CARY SANGER, JR.

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Miss FANNIE L. HOAGLAND	Miss FANNIE L. HOAGLAND

1895

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HENRY F. COOK	HENRY F. COOK
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A. AUGUSTUS HEALY

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 Hon. ALFRED T. WHITE

Rev. ALFRED DUANE PELL  
 Hon. ALFRED T. WHITE

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Mrs. CORNELIA L. PELL

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 GEORGE D. PRATT

SAMUEL P. AVERY  
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 Mrs. SMITH ELY JELLIFFE  
 GUSTAV LOESER  
 WILLIAM H. MALE

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 Miss HARRIET H. WHITE  
 Miss KATHERINE LYMAN

WHITE Miss ALICE B. CARY

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 LOUIS C. TIFFANY  
 SPENCER TRASK

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Miss MARY LOWBER	REV. EDWARD W. McCARTY	
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JAMES HOWARD PRENTICE	HOSMER B. PARSONS	
ANTON A. RAVEN	WILLIAM N. PEAK	
RUSSELL STURGIS	MISS CONSTANCE LOUISE PRAY	
BENJAMIN TATHAM	GEORGE H. PRENTISS	
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Mrs. MARY H. DE SILVER	WALTER RICHARD PROSSER	
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GEORGE L. ENGLISH	MRS. JAMES P. WARBASSE	
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WINFIELD ROBBINS	MARTIN JOOST	
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CLARENCE W. SEAMANS	1898	
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1896		
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Miss HARRIET F. BLACKFORD	JULIAN D. FAIRCHILD	
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HENRY K. DYER	HORACE J. MORSE	
WILLIAM T. GILBERT	P. ELBERT NOSTRAND	
Mrs. WILLIAM H. GOODYEAR	MISS MARY STORRS PACKARD	
	HENRY U. PALMER	
	MISS BESSE TAYLOR	
	MISS IDA MAY SCHIEREN	

Miss ANNIE JEAN WHITE  
ALEXANDER M. WHITE

1899

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Mrs. EDWARD ADAMS  
JOHN WINFRID AGER  
Miss MARY ARNOLD  
Mrs. JANE A. BENSON  
Miss THYRZA BENSON  
WILLIAM T. GIBB  
DAVID F. GOODNOW  
HENRY R. GOODNOW  
WESTON W. GOODNOW  
Mrs. JULIA SHERMAN HOYT  
CHARLES E. PERKINS  
RUSSELL E. PRENTISS  
Mrs. ANNA B. SHELDON  
Miss EDITH A. SHATTUCK  
J. SPENCER TURNER  
Miss SUSAN M. VAN ANDEN  
JOHN J. WILLIAMS

1900

\*WILLIAM BROWN  
Miss ELIZABETH FIELD  
SANFORD H. STEELE  
FRANCIS H. STUART, M.A., M.D.

1901

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Rev. S. PARKES CADMAN, D.D.  
WILLIAM LINCOLN CHAPEL  
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ALFRED G. MAYER, Ph.D.,  
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J. ADOLPH MOLLENHAUER

1902

\*WILLIAM H. BALDWIN, Jr.  
Miss DOROTHY CHAPEL  
Miss GERTRUDE CHAPEL

\*Deceased.

Miss IVY HOWE CHAPEL  
Miss LIZZIE A. FERRIER  
GEORGE A. HEARN  
DAVENPORT HOOKER  
ALBERT E. LAMB  
Rev. ROBERT McDONALD, D.D.  
Mrs. AMY MOODY  
ROBERT R. WALBRIDGE

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JOHN COCKS  
Mrs. CHARLOTTE C. DAVENPORT  
Miss ELLA DOWNES  
CHARLES JONES PEABODY  
HARRINGTON PUTNAM  
SHEPHERD STEVENS  
Mrs. W. BURDETTE O'CONNOR  
ANDREW T. SULLIVAN  
RICHARD YOUNG

1904

Rev. JAMES JOSEPH BANBURY  
Rev. EGISTO FABRI CHAUNCEY  
DWIGHT H. KELLOGG  
GATES D. FAHNESTOCK  
Miss EMMA ELOISE FOSTER  
Rev. JOHN HOWARD MELISH

1905

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Mrs. CECILIA BUEK  
Mrs. JEREMIAH CROWELL  
ANTON EILERS  
SIDNEY GREEN  
WILLIAM B. HILL  
SAMUEL N. HOYT  
EDWARD JOHNSON  
Mrs. E. M. KENT  
Miss JULIA W. LATIMER  
Miss ALICE L. MORSE  
JOHN J. PIERREPOINT  
THOMAS POTTS  
Mrs. FANNIE AVERY WELCHER

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 C. WILLIAM BEEBE  
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 Col. WILLIAM C. BEECHER  
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 E. LE GRAND BEERS  
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 Miss HELEN M. BEERS

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Miss JOSEPHINE THOMPSON	Miss HANNAH TOBELMAN
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JOHN R. THOMPSON	GEORGE U. TODD
Mrs. MARION L. THOMPSON	HOBART H. TODD
Miss MARTHA L. THOMPSON	Mrs. KATE E. TODD
WILLIAM THOMPSON	NICHOLAS TOERGE
ALEX. N. THOMSON	CHARLES C. TOMPKINS
Miss EDITH P. THOMSON	E. B. TOMPKINS
JOHN THOMSON	Mrs. E. S. TOMPKINS
Miss LYDIA B. THOMSON	STATES D. TOMPKINS

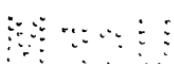
\* Deceased.

Miss CATHERINE L. TONER	FREDERICK M. TURNER
HENRY P. TOOMBS	GEORGE W. TURNER
Miss JULIA M. TOOMEY	J. SPENCER TURNER
Mrs. CHARLES A. TORBERT	Miss KATE E. TURNER
JOHN E. TOUSEY	Miss MARGARET C. TURNER
Prof. HARRY F. TOWLE	Miss WILHELMINA TURNER
Miss ANNA C. TOWNER	Miss SARAH E. TURTLE
Miss ANNIE C. TOWNLEY	Miss GERTRUDE M. TUTHILL
Mrs. GEORGE W. TOWNLEY	LEWIS H. TUTHILL
FRANK L. TOWNSEND	ARTHUR S. TUTTLE
Miss MARY E. TOWNSEND	EZRA A. TUTTLE
Mrs. EMMA TRACY	Miss EDITH M. TUTTLE
Miss GERTRUDE E. TRACY	Miss JULIA A. TUTTLE
TRAINING SCHOOL FOR NURSES	SILAS TUTTLE
Miss ELLA J. TRAPPAN	Mrs. SILAS TUTTLE
SPENCER TRASK	WALTER I. TUTTLE
Miss ISABEL TRAVERS	WILLARD S. TUTTLE
Miss LIDA TRAVERS	WINTHROP S. TUTTLE
Miss HELEN P. TRAVIS	HERBERT K. TWITCHELL
Miss A. M. TREACY	BENJAMIN F. TYLER
Miss HELEN TREGANZA	HORACE H. TYLER
Miss M. A. TREMPER	WALTER L. TYLER
Mrs. SOPHIA C. TREYZ	Mrs. HENRY L. UGHETTA
FREDERICK R. TRIPLER	Mrs. HENRY G. UHLIG
CHARLES TRIPPE	WILLIAM H. UKERS
HUGO TROETSCHEL	HEINRICH ULRICH
EDWARD TROIKE	JOHN J. ULLRICH
Miss ANASTASIA H. TROTTNER	FRANCIS F. UNDERHILL
Miss HELEN R. TROWBRIDGE	HENRY L. UNDERHILL
Mrs. MINER TROWBRIDGE	JAMES E. UNDERHILL
Mrs. WILLIAM E. TRUESDELL	STEPHEN UNDERHILL
JOHN TRUSLOW	JEROME P. UPTEGROVE
Mrs. JAMES L. TRUSLOW	Mrs. WILLIAM E. UPTEGROVE
Mrs. LILLIAN A. TRUSLOW	WILLIAM URBAN, JR.
Miss ALMIRA B. TUBBY	HERBERT L. UTTER
WILLIAM B. TUBBY	Mrs. ALICE B. VAIL
Miss LOUISE E. TUCKER	Miss MAY H. VAIL
*ROBERT H. TURLE	STEPHEN VALENTINE
Miss ADELAIDE TURNBULL	Mrs. EMMA VAN
EDGAR W. TURNBULL	
GEORGE R. TURNBULL	

\*Deceased.

HENRY VAN ALTEA	MARSHALL VAN WINKLE
MISS SUSAN M. VAN ANDEN	MISS ELIZA VAN WYCK
EBERT K. VAN BEUREN	MRS. MARY NICOLOVIOUS VARIAN
MISS VIRGINIA VAN BLANKEN-	HARRY J. VAUGHAN
STEYN	MRS. C. W. VEITCH
FRANCIS S. VAN BOSCHERCK	MISS MARGARETTE VEITCH
JOHN C. VAN CLEAF	JOSEPH A. VELSOR
MRS. JOSHUA M. VAN COTT	MISS EMMA D. VENABLE
MISS CHARLOTTE S. VANDERBILT	IRVING S. VENTRES
EDWARD WARD VANDERBILT	MRS. IDA JAMES VERNON
MISS MABEL E. VANDERBILT	MRS. THOMAS VERNON
MRS. M. E. VANDERCOOK	MRS. THOMAS A. VERNON
WYCKOFF VAN DERHOEF	MISS FRANCES M. VIBBARD
HENRY B. VANDERVEER	MRS. SAMUEL VICKESS
MISS JEANNETTE VANDERVEER	MISS NATHALIE L. VIDAUD
JOHN K. VANDERVEER	EDWARD W. VIETOR, M.D.
MISS KATE VANDERVEER	MISS GRACE A. VISSCHER
MISS FANNIE L. VAN DEUSEN	CHARLES W. VISEL
VINCENT VANDER WEYDE	E. HERMANN VIVIÉ
HENRY J. VAN GELDER	WALTER VOEGE
GERHARD H. VAN HOORN	HENRY VOLTMANN, Jr.
J. P. VAN HUYCK	OSCAR VON BESNARD
MRS. FREDERICK A. VAN IDERSTINE	MRS. ALEXANDER G. VON CAMPE
MISS LOUISE VAN IDERSTINE	LEO B. VON GERSDORFF
DUDLEY W. VAN INGEN	HENRY VON GLAHN, Jr.
CHARLES H. VAN LEUVEN	ERNEST R. VON NARDROFF
WARREN M. VAN NAME	FRANK VON NEER
MISS MARY C. VAN NORDEN	MISS MINNA VON NOSTITZ
MISS M. PAULINE VAN NORDEN	MRS. ELLA L. VOORHEES
THOMAS L. VAN NORDEN	MISS IDA M. VOORHEES
MISS AUGUSTA VAN NOSTRAND	JUDAH B. VOORHEES
MISS JENNIE VAN NOSTRAND	MISS HELEN M. VREDENBURGH
JOHN VAN NOSTRAND	MRS. KATE B. VROOMAN
JAMES E. VAN OLINDA	
HENRY D. VAN Orden	WILLIAM D. WADE
MRS. JACOB VAN RAALTE	CHARLES WAGENFOHR
WILLIAM L. VAN SINDEREN	ARNOLD H. WAGNER
MISS REBECCA VAN THUN	BERNARD M. WAGNER
MISS LULU VAN VALKENBURGH	EDGAR O. WAGNER
LE GRAND VAN VALKENBURGH	MRS. DANIEL E. WADE
MRS. JOSIE A. VAN VRANKEN	MISS EDNA A. WAITE
MISS MARY J. VAN VREDENBURGH	MISS EMMA F. WAKEMAN
MISS ISABEL H. VAN WIE	

Miss GERTRUDE M. WALBRAN  
 Miss MARGUERITE WALBRIDGE  
 Miss MARION C. WALBRIDGE  
 ROBERT R. WALBRIDGE  
 HOWARD T. WALDEN  
 Mrs. MAUD M. L. WALDEN  
 Mrs. RUSSELL WALDEN  
 Mrs. GEORGE E. WALDO  
 Miss S. ELLEN WALDO  
 Miss FRANCES E. WALDRON  
 WILLIAM B. WALDRON  
 Miss ALMA E. WALES  
 ADAM WALKER  
 Miss AGNES M. WALKER  
 CLEMENT I. WALKER  
 FREDERICK WALKER  
 Mrs. GEORGE C. WALKER  
 HANSON M. H. WALKER  
 Miss HENRIETTA M. WALKER  
 JAMES WALKER  
 Mrs. ROBERT S. WALKER  
 Miss S. JENNIE WALKER  
 Miss ELLEN G. WALL  
 Mrs. ALEXANDER WALLACE  
 JACKSON WALLACE  
 Miss S. INEZ WALLACE  
 Hon. WILLIAM H. WALLACE  
 Mrs. ALICE A. WALLIAN  
 HARRISON P. WALLIS  
 Mrs. CATHERINE WALSH  
 Mrs. HARRIET A. WALSH  
 Miss MATILDA F. WALSH  
 Mrs. WILLIAM W. WALSH, Jr.  
 WILLIAM W. WALSH  
 FREDERICK A. WALTER  
 GUSTAVE E. WALTER  
 AUGUST WALTHER  
 GUSTAVE T. WALTHER  
 CHARLES E. WALTON  
 Miss EMMA L. WALTON  
 WILLIAM S. WANDEL  
 Mrs. JAMES P. WARBASSE  
 CHARLES L. WARD  
 CHARLES WILLIS WARD  
 EDWIN C. WARD  
 Miss KATE MORGAN WARD  
 Miss MARY A. WARD  
 Mrs. SIDNEY WARD  
 Mrs. MARY WARELL  
 Mrs. MARY B. WARDELL  
 WILLIAM K. WARDNER  
 Mrs. THEODORE S. WARDWELL  
 ALTON G. WARNER, M.D.  
 BENJAMIN J. WARNER  
 Miss EDITH A. WARNER  
 ELMER E. WARNER  
 EDWIN G. WARNER, Ph.D.  
 Miss ELMA L. WARNER  
 Miss EMMA L. WARNER  
 Mrs. FRANCES W. WARNER  
 Mrs. HORACE S. WARNER  
 Mrs. OSCAR WARNER  
 Miss RUTH J. WARNER  
 Miss LILA H. WARREN  
 Miss SUSAN K. WARREN  
 Mrs. CLARISSA T. WARRENER  
 FRANK WASHBOURNE  
 CYRUS V. WASHBURN  
 GEORGE W. WASHBURN  
 Mrs. JENNIE B. WATERBURY  
 Miss MARY H. WATERMAN  
 Mrs. S. E. V. WATERMAN  
 HORACE WATERS  
 Miss ADA WATKINS  
 Miss JENNIE J. WATKINS  
 Miss ALICE D. WATSON  
 Miss CECILIA WATSON  
 Miss ISABEL J. WATSON  
 Miss JESSIE K. WATSON  
 Mrs. WILLIAM WATSON  
 JAMES E. WATT  
 H. H. WAUGH, M.D.  
 BREADING G. WAY  
 FREDERICK H. WAY



Miss M. J. WAY  
 \*ALBERT L. WEAVER  
 CHARLES W. WEAVER  
 ELI W. WEAVER  
 Miss LUCY A. WEAVER  
 SILAS D. WEBB  
 Mrs. ARTHUR G. WEBER  
 Miss EMMA J. WEBER  
 FERDINAND WEBER  
 Miss FLORENCE H. WEBSTER  
 FREDERICK H. WEBSTER  
 JOSEPH G. WEBSTER  
 R. P. S. WEBSTER  
 Miss MADELINE WECHSLER  
 EDWARD WECK  
 LOUIS WEDEL  
 CHARLES G. WEEBER  
 HENRY T. WEED  
 SAMUEL R. WEED  
 ARCHIBALD C. WEEKS  
 Mrs. CECELIA WEEKES  
 Miss SARAH J. WEEKES  
 Mrs. SAMUEL M. WEEKES  
 WILLIAM H. WEEKS  
 Mrs. EMIL WEIL  
 EMMANUEL WEIL  
 Miss SARAH B. WEILER  
 Miss ADELE L. WEISS  
 Mrs. MANFRED P. WELCHER  
 De WITT C. WELD, Jr.  
 HERBERT WELLINGTON  
 WALTER L. WELLINGTON  
 Mrs. A. P. WELLS  
 \*Rev. CORNELIUS L. WELLS, D.D.  
 Miss ANNIS R. WELLS  
 Miss CLARA L. WELLS  
 \*HENRY P. WELLS  
 Mrs. J. DOUGLAS WELLS  
 Mrs. WALTER F. WELLS  
 WILLIAM R. WELLS  
 Miss ABBY R. WELLWOOD

Mrs. WHEATON A. WELSH  
 Miss MARY WELTY  
 ROBERT L. WENSLEY  
 HENRY WENZEL, Jr.  
 Mrs. HENRI WERLEMAN  
 Miss MARIE A. WERREY  
 Miss JULIE E. WERTHEIMER  
 JOSEPH WESLEY  
 CHARLES W. WEST  
 Mrs. H. ALBERTUS WEST  
 Mrs. FANNY A. WESTBROOK  
 GEORGE R. WESTBROOK, M.D.  
 Mrs. RICHARD W. WESTBROOK  
 Miss ESTHER E. WESTCOTT  
 FRANK WESTERVELT  
 Mrs. LAURA B. WEYANT  
 Miss MARY D. WHALEY  
 EDWIN W. WHEAT  
 Miss GRACE A. WHEAT  
 JOHN S. WHEELAN  
 HENRY H. WHEELER  
 \*HAYDEN W. WHEELER  
 Miss MIRIAM E. WHEELER  
 SCOTT WHEELER  
 Miss LAURA F. WHEELORK  
 Mrs. WILLIAM E. WHEELOCK  
 Rev. JOHN I. WHELAN  
 Prof. GEORGE M. WHICHER, A.M.  
 GEORGE C. WHIPPLE  
 Mrs. GEORGE K. WHITBECK  
 Miss ANNIE JEAN WHITE  
 ALEXANDER M. WHITE  
 ALEXANDER M. WHITE, Jr.  
 ALFRED T. WHITE  
 Miss BESSIE R. WHITE  
 Miss CLARA L. WHITE  
 EDWARD WHITE  
 Miss EDITH C. WHITE  
 EDWARD D. WHITE  
 Miss FRANCES E. WHITE  
 Mrs. GEORGE A. WHITE

\* Decesased.

GEORGE D. WHITE	Mrs. W. MELIN WILEY
Dr. HENRY D. WHITE	CHARLES WILHELM'S
Miss HARRIET H. WHITE	JOHN L. WILKEN
HAROLD T. WHITE	ROBERT J. WILKINS
Miss KATHARINE LYMAN WHITE	Miss ELIZABETH A. WILKINSON
Prin. LASELLE H. WHITE, Ph.D.	THOMAS P. WILKINSON
Miss MARY E. WHITE	FRANK A. WILLARD
STANFORD WHITE	Miss GLADYS WILLARD
Hon. STEPHEN V. WHITE	CHARLES A. WILLETS
Mrs. STEPHEN V. WHITE	Mrs. EDWARD B. WILLETS
WILLIAM AUGUSTUS WHITE	Miss ADDIE D. WILLIAMS
SAMUEL S. WHITEHOUSE	Miss ALICE V. WILLIAMS
Miss M. ELVA WHITENACK	Mrs. EDGAR WILLIAMS
Miss ANNIE L. WHITIN	Miss EMMA A. WILLIAMS
Mrs. ISABELLA S. WHITIN	EDGAR JULIAN WILLIAMS
Mrs. CHARLES A. WHITING	Mrs. FRANCIS S. WILLIAMS
Mrs. CHARLES R. WHITING	GEORGE T. WILLIAMS
Miss MARY WHITLOCK	JAMES H. WILLIAMS
Miss M. LOUISE WHITLOCK	JOHN J. WILLIAMS
Mrs. CHARLES C. WHITNEY	Mrs. JOHN O. WILLIAMS
Miss EVANGELINE E. WHITNEY	LEROY WILLIAMS
HENRY N. WHITNEY	Miss LAURA G. WILLIAMS
Miss KATHARINE E. WHITNEY	Miss MINNIE L. WILLIAMS
Miss LOUISE WHITNEY	Miss NELLIE W. WILLIAMS
ELMER E. WHITTAKER	Rev. RICHARD R. WILLIAMS
Miss MARY WHITTAKER	SAMUEL R. WILLIAMS
HOWARD WHITTLESEY	W. H. WILLIAMS
Miss MINNIE D. WIEBE	CHARLES R. WILLIAMSON
DAVID DOUGLAS WIEPERT	Miss RUBY J. WILLIAMSON
THEODORE WIEPERT	SIDNEY T. S. WILLIAMSON
Miss CAROLINE M. WIGGINS	Prof. ARTHUR L. WILLISTON
JAMES E. WIGHT	Mrs. C. L. WILLISTON
Miss SUSAN M. WILBER	Miss ANNA WILLS
Miss ANNA M. WILBUR	J. LAINSON WILLS
Miss RACHEL J. WILBUR	JOHN WILSHEAR
MARTIN H. WILCKENS	Mrs. ANDREW W. WILSON
FREDERICK WILCOCK	CHARLES A. WILSON
Mrs. CLARK WILCOX	CHRISTOPHER W. WILSON
JULIUS WILCOX	DANIEL T. WILSON
DANIEL G. WILD	Miss EMELYN WILSON
GEORGE F. WILDER	Miss ELIZABETH A. WILSON
ERNEST WILDFOERSTER	Miss EVELINE E. WILSON

EDWARD H. WILSON	EMIL WINZER
Miss EMMA J. WILSON	ALFRED F. WISE
Miss EDITH MAY WILSON	Mrs. HORATIO S. WISNER
Miss ETTA M. WILSON	Mrs. JEFFREY A. WISNER
Mrs. HARRIS WILSON	OTTO WISSNER
JAMES WILSON	JOSEPH V. WITHERBEE
Mrs. JOHN W. WILSON	JOHN S. WITMER, Jr.
*JOHN W. WILSON	Miss AUGUSTA M. WITTE
Miss LENA WILSON	Miss CLEMENTINE D. WITTE
Miss M. L. WILSON	CHARLES G. WITTE
Miss MARTHA M. WILSON	HENRY G. WOLCOTT
ROBERT P. WILSON	JOHN M. WOLF
Mrs. WILLIAM E. WILSON	Miss MARIE A. WOLF
WILLIAM H. WILSON	Miss NETTIE M. WOLF
THOMAS B. WILLSON	VALENTINE WOLZ
Miss ELIZABETH T. WINCHESTER	Miss CORA BELLE WOOD
J. P. WINDECKER	CORNELIUS D. WOOD
JAMES M. WINFIELD, M.D.	Miss FRANCES J. WOOD
Mrs. FREDERICK H. WING	FRED. J. J. WOOD, M.D.
FRANK L. WING	Mrs. GRACE D. WOOD
HENRY T. WING	Mrs. HOWARD WOOD
Mrs. GEORGE A. WINGATE	JEREMIAH WOOD
Gen. GEORGE W. WINGATE	JAMES M. WOOD
Mrs. J. PHELPS WINGATE	JOHN SCOTT WOOD, M.D.
Miss ELSIE WINGERS	Mrs. LOUISE G. WOOD
Miss EMMA A. WINSHIP	Miss LAURA M. WOOD
WILLIAM W. WINSHIP	Miss MARIE T. WOOD
ARTHUR G. WINSLOW	WALTER C. WOOD, M.D.
GEORGE E. WINSLOW	CHARLES L. WOODBRIDGE
Miss JULIA E. WINSLOW	Gen. STEWART L. WOODFORD
Miss MARGARET S. WINSLOW	CALEB S. WOODHULL
ANGUS MAC C. WINTER	HENRY S. WOODMAN
JOHN J. WINTER	MARSHALL A. WOODMAN
Mrs. ROSETTA L. WINTER	R. HUNTINGTON WOODMAN
THOMAS W. WINTER, Jr.	Miss AMY C. WOODRUFF
ROBERT J. WINTERBOTTOM	Miss EDITH WOODRUFF
EUGENE C. WINTERNITZ	EZRA WOODRUFF
Miss ELISE WINTERS	Hon. TIMOTHY L. WOODRUFF
HENRY C. WINTRINGHAM	JOHN A. WOODS
JOSEPH P. WINTRINGHAM	Miss ELIZABETH A. WOODWARD
WILLIAM T. WINTRINGHAM	Miss ELLA F. WOODWARD

\*Deceased.

ELBERT W. WOODWARD	Miss RIMIE WYCKOFF
Mrs. JOHN B. WOODWARD	WILLIAM F. WYCKOFF
*Miss MARIA WOODWARD	Miss ELLA M. WYMAN
Miss MARY B. WOODWARD	HUBERT S. WYNKOOP
ROBERT B. WOODWARD	Miss KATHARINE V. WYNNE
*ROBINS B. WOODWARD	Miss MARY T. WYNNE
Miss VIRGINIA WOODWARD	
GEORGE H. WOODWORTH	LAWRENCE YATES
Miss GERTRUDE H. WOOLLEY	FREDERICK A. YENNI
ULYSSES G. WOOLLEY, M.D.	Miss ELIZABETH E. YOCHUM
Miss NELLIE B. WOOLSEY	Miss ABBIE YOUNG
Miss MARY WORN	CHARLES F. YOUNG
SHERMAN F. WORSTER	CHARLES T. YOUNG
Miss GRACIA A. WORTH	Miss ESTELLE YOUNG
Mrs. DAVID F. WRIGHT	Mrs. FANNIE J. YOUNG
Miss EVA WRIGHT	Mrs. JOHN ALVIN YOUNG
Mrs. EDWIN S. WRIGHT	Miss KATE C. YOUNG
GEORGE WRIGHT	Miss LAURA YOUNG
GEORGE J. WRIGHT	Miss LOTTIE E. YOUNG
JONATHAN WRIGHT, M.D.	RICHARD YOUNG
J. FREDERICK WRIGHT	
J. GRAHAM WRIGHT	CORNELIUS ZABRISKIE
JOHN H. WRIGHT	Mrs. ELIZA B. ZABRISKIE
Mrs. JOHN N. WRIGHT	Rev. JEREMIAH L. ZABRISKIE
Mrs. LELIA S. WRIGHT	EUGENE ZAISS
Miss MARY J. WRIGHT	WILLIAM ZAISS
Miss MARY L. WRIGHT	PAUL ZEHE
Miss MARY W. WRIGHT	FRANK L. ZEREGA
L. E. WUEST	*WILLIAM ZEIGLER
Miss IDA H. WULFF	WILLIAM H. ZIEGLER
FREDERICK W. WUNDERLICH, M.D.	JOSEPH ZILVER
Mrs. LILLA D. WUNDERLICH	GUSTAV ZIMMERMANN
Miss ADELAIDE E. WYCKOFF	E. A. ZITTEL
Miss ANNIE S. WYCKOFF	ALFRED T. ZOEBISCH
CHARLES R. WYCKOFF, Jr.	CARL H. ZOEBISCH
Rev. CHARLES S. WYCKOFF	DAVID ZUCKERMAN

\*Deceased.

**IN MEMORIAM****CORRESPONDING MEMBER**

GEORGE FRISBIE HOAR - - - - - September 30, 1904

**PERMANENT MEMBERS**EUGENE G. BLACKFORD - - - - - December 28, 1904  
Mrs. CLARA H. STRANAHAN - - - - - January 22, 1905**LIFE MEMBERS**

HENRY L. FARIS	- - - - -	September 18, 1904
HAYDEN W. WHEELER	- - - - -	October 28, "
JOHN W. CHADWICK	- - - - -	December 4, "
WILLIAM H. BALDWIN, JR.	- - - - -	January 3, 1905
WILLIAM BROWN	- - - - -	January 18, "
Gen. C. T. CHRISTENSEN	- - - - -	January 27, "
JAMES LITTLEJOHN	- - - - -	January 30, "
LEONARD MOODY	- - - - -	February 22, "
NICHOLAS PIKE	- - - - -	April 11, "
WILLIAM ZIEGLER	- - - - -	May 24, "

**ASSOCIATE MEMBERS**

CHARLES M. STILLWELL	- - - - -	January 11, 1903
Miss ISABEL HALSTED	- - - - -	February 18, 1904
JAMES N. HARRIS	- - - - -	February 24, "
Mrs. LOUISE BELDEN	- - - - -	- May, "
Miss SARAH R. AECHTERNACH	- - - - -	June 1, "
Mrs. RALPH P. HINCHMAN	- - - - -	June 23, "
Miss MARY E. TATE	- - - - -	June 24, "
WILLIAM S. LAMBERT	- - - - -	June, "
JOHN G. SMITHWICK	- - - - -	July 1, "
Mrs. OTTO HEINZE	- - - - -	July 24, "
Mrs. CHARLES HURST	- - - - -	July 28, "
Miss MARIE CURTIS	- - - - -	August "
JOHN W. WILSON	- - - - -	October 3, "
Miss HELEN M. RYAN	- - - - -	October 13, "
EDWIN LUDLAM	- - - - -	October 13, "

CHARLES E. BAKER	-	-	-	-	-	October 23, 1904
Mrs. WILLIAM THORNTON	-	-	-	-	-	October, "
Hon. JOSEPH C. HENDRIX	-	-	-	-	-	November 9, "
LYNDON M. SWAN	-	-	-	-	-	November 26, "
Gen. ALFRED C. BARNES	-	-	-	-	-	November 28, "
Mrs. MARY E. MAST	-	-	-	-	-	December 3, "
EDWARD S. SEELEY	-	-	-	-	-	December 3, "
Rev. CORNELIUS LOW WELLS	-	-	-	-	-	December 12, "
LEANDER M. DE LAMATER	-	-	-	-	-	December 12, "
JAMES C. BROWN	-	-	-	-	-	December 13, "
CHARLES C. CUMMINGS	-	-	-	-	-	December 18, "
WILLIAM GILFILLAN, M.D.	-	-	-	-	-	December 18, "
WILLIAM M. L. FISKE, M.D.	-	-	-	-	-	December 21, "
ALBERT L. WEAVER	-	-	-	-	-	
Miss MARY J. BAGGS	-	-	-	-	-	January 26, 1905
JOSEPH GLATZ	-	-	-	-	-	January 26, "
Miss SARAH A. SMITH	-	-	-	-	-	January, "
FREDERICK W. MOSS	-	-	-	-	-	February 13, "
WALTER H. MARTIN	-	-	-	-	-	February 13, "
ALBON MAN	-	-	-	-	-	February 18, "
BENJAMIN H. CAPPÉ	-	-	-	-	-	February 18, "
E. L. HEUSNER	-	-	-	-	-	February, "
JOHN J. PRENDERGAST, M.D.	-	-	-	-	-	March 1, "
JOHN H. ROYAL	-	-	-	-	-	March 10, "
DIEDRICH GRAFF	-	-	-	-	-	March 14, "
ROBERT H. TURLE	-	-	-	-	-	May 13, "
GEORGE G. RYAN	-	-	-	-	-	May 25, "
HOWARD GIBB	-	-	-	-	-	June 17, "



GENERAL JOHN BLACKBURNE WOODWARD  
TRUSTEE, 1867-1896; SECRETARY, 1885-1887; PRESIDENT, 1887-1895



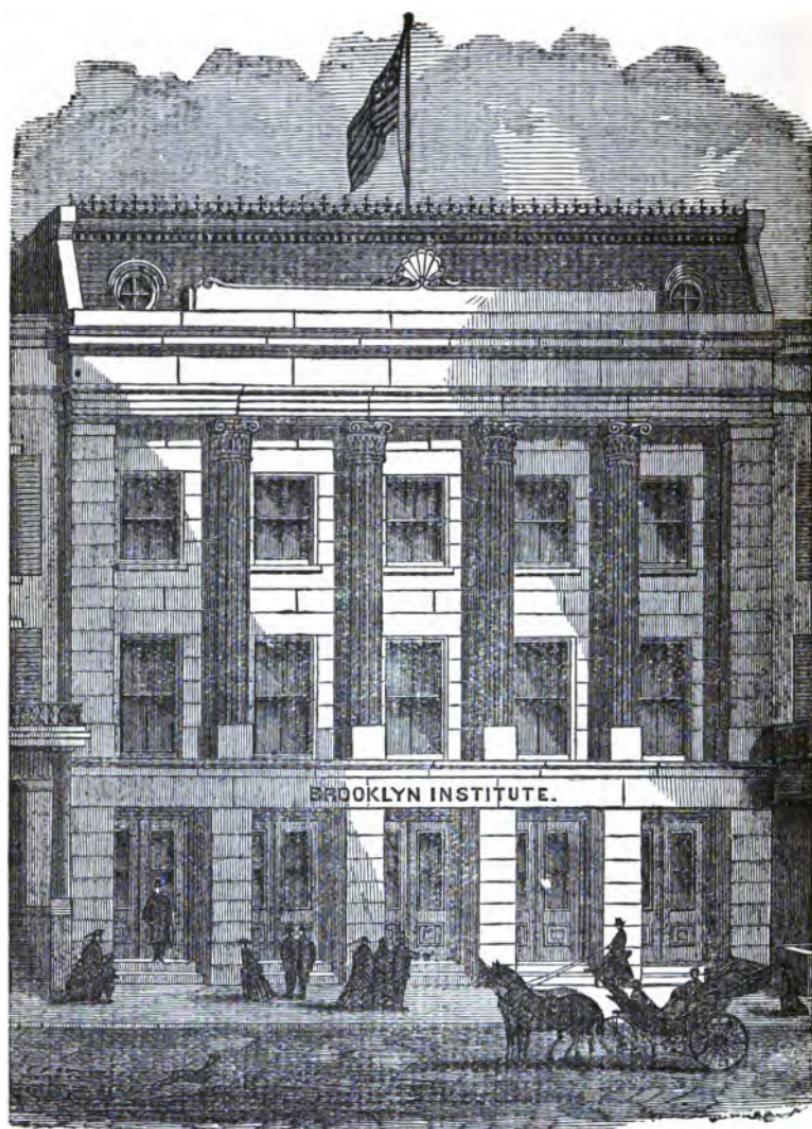
HENRY K. SHELDON, CHAIRMAN OF MUSIC COMMITTEE, 1890-1900.

**A BRIEF HISTORY  
OF  
THE BROOKLYN INSTITUTE OF  
ARTS AND SCIENCES**

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In the summer of 1823 several gentlemen, among whom was Augustus Graham, met at Stevenson's Tavern for the purpose of establishing for the apprentices of Brooklyn a Free Library. They adopted a constitution, and issued to the citizens of Brooklyn a circular, in which they solicited donations of books and money with which to effect their purpose. On November 20, 1824, they were incorporated by the Legislature of the State under the name of The Brooklyn Apprentices' Library Association, and on July 4, 1825, the cornerstone of the first building owned by the Association was laid by General Lafayette, at the junction of Henry and Cranberry streets. As early as 1835 the Association had outgrown its original quarters, and, the property having been sold to the city, the institution was removed to a new building in Washington street, then the residential center of the young city of Brooklyn.

In order to broaden the scope of the Association, an amended charter was granted by the Legislature in 1843, and the name therein changed to that of the Brooklyn Institute. For many years thereafter the Institute was a most important factor in the social, literary, scientific and educational life of Brooklyn. Its library had a good circulation; its public hall was the scene of many historic and social gatherings, and from its platform were heard such eminent scientific men as Agassiz, Dana, Gray, Henry, Morse, Mitchell, Torrey, Guyot and Cooke; such learned divines as



OLD WASHINGTON STREET BUILDING, OCCUPIED 1835-1891.

Doctors McCosh, Hitchcock, Storrs and Buddington, and such defenders of the liberties of the people as Phillips, Sumner, Garrison, Emerson, Everett, Curtis, King, Bellows, Chapin and Beecher.

During this brilliant period of its history (1843-1867) the Institute received from Mr. Graham two very important donations. On July 4, 1848, the building, which had been heavily mortgaged, he presented to the Trustees free from all encumbrance, and through his will, made known to the Board of Directors on November 28, 1851, shortly after his decease, he bequeathed to the Institute the sum of \$27,000 as a permanent endowment fund. The will directs that the interest of \$10,000 of this sum shall be used in the support of lectures on scientific subjects and in the purchase of apparatus and collections illustrating the sciences; that the interest of \$12,000 shall be used in the support of Sunday evening lectures on "The Power, Wisdom and Goodness of God as Manifested in His Works," and that the balance of \$5,000 shall be used in the support of a School of Design and in forming a Gallery of Fine Arts.

For several years, however, prior to 1867, owing to the erection of the Academy of Music and other public buildings, the Institute building was regarded as behind the times. The income from the rental of portions of the building was dwindling to a low figure, and the financial support of the free library was becoming inadequate. Under these circumstances the Directors remodeled the building in 1867, at an expense of about \$30,000, a part of which was raised by Life Membership Subscriptions of \$50 and \$100, and the balance by a mortgage on the building. For twenty years (1867-87) this indebtedness thus incurred necessitated the application of a portion of the income from the rent of the building and from the Graham Endowment Fund to the payment of the interest and the principal of the debt. Final payment on the mortgage was made early in 1887.

The cause of the partial inactivity of the Institute during the twenty years (1867-87) is, therefore, apparent. The most that it was able to do was to circulate its library, to keep up its classes in drawing, and to provide for the annual addresses on the 22d of February. Freed from debt in 1887 the Institute was enabled once more to use the whole income from its funds and building for educational purposes, and to become once more an important agent in the work of education in the city.

The property of the Institute in 1887 consisted of the Institute building and land, valued at \$80,000, a library of 12,000 volumes, a collection of paintings valued at \$10,000, and Endowment Funds of \$46,000. These last comprised the \$27,000 bequeathed by Mr. Graham, the William H. Cary Fund of \$10,000, the interest of which had been used mainly in the support of the library, and an increment of \$9,000 realized through premiums on the sale of bonds.

### 1887-8.

During the year 1887-8 a new era in the history of the Institute was inaugurated. The Board of Trustees determined to make the property of the Institute the nucleus of a broad and comprehensive institution for the advancement of science and art, and its membership a large and active association laboring not only for the advancement of knowledge, but also for the education of the people through lectures and collections in the arts and sciences. It was observed that, while Boston had the Lowell Institute, a Society of Natural History and an Art Museum; while Philadelphia had the Franklin Institute, an Academy of Sciences and a Gallery of Fine Arts, and New York had the Metropolitan Museum and the American Museum, Brooklyn had nothing corresponding to these institutions. It was felt that Brooklyn should have an Institute of Arts and Sciences worthy of her wealth, her position, her culture and

her people; that it was her duty to do more than she was then doing for the education and enjoyment of her people, and that some step should be taken looking toward the future growth and needs of the city in matters of art and science.

Accordingly a form of organization was adopted which contemplated the creation of a large association of members, and a continual increase of the Endowment Funds and the Collections of the Institute. Provision was made for a subdivision of the membership into departments, representing various branches of Art and Science, each department forming a society by itself and yet enjoying all the privileges of the general association. A general invitation was extended to citizens specially interested in Science and Art to become members of the Institute. Courses of lectures on Science and Art were provided. The Directors' Room of the Institute was enlarged to accommodate the meetings of some of the departments contemplated, and a large Lecture Room on the third floor of the Institute Building was fitted up at an expense of \$2,600 for the occupancy of those departments that would make use of apparatus and collections at their meetings.

#### 1888-9.

During the first fifteen months after the reorganization of the Institute a membership of three hundred and fifty persons was recorded. The Brooklyn Microscopical Society joined the Institute in a body with sixty-four members, and became the Department of Microscopy. The American Astronomical Society, whose members resided mostly in New York and Brooklyn, became the Department of Astronomy, with thirty-two members. The Brooklyn Entomological Society united with the Institute, and became the Entomological Department, with forty-one members. The Linden Camera Club of Brooklyn became the Department

of Photography, with twenty-six members. Departments of Physics, Chemistry, Botany, Mineralogy, Geology, Zoölogy, and Archæology were successively formed. Each of the above twelve Departments began to hold monthly meetings. The permanent funds and property of the Institute were increased by \$3,000. Additions were made to the Library. Its circulation was increased from 12,000 to 36,000 volumes per year; and a general citizens' movement to secure a Museum of Arts and Sciences for Brooklyn was inaugurated.

1889-90.

The progress of the Institute during the year 1889-90 was even greater than in the preceding fifteen months. The membership of the twelve Departments organized the previous year was somewhat more than doubled. Eight new and strong Departments, viz., Architecture, Electricity, Geography, Mathematics, Painting, Philology, Political Science, and Psychology, were formed successively. The membership was increased from three hundred and fifty to eleven hundred. Additions to the collections of the Institute were made. The Library was reorganized and its circulation increased from the rate of 36,000 volumes to 55,000 per year, and 1,500 new books were placed in the Library for the benefit of the Departments and their members. The number of lectures, exhibits and meetings of Departments was increased from about ninety in the previous year to two hundred and thirty. The attendance on the Department meetings was doubled, and amounted to 46,950. The number of members taking an active part in the meetings and in the work of the Institute was quadrupled; and out of the abundance of active and increasing interest in the Arts and Sciences awakened by the old Brooklyn Institute the new BROOKLYN INSTITUTE OF ARTS AND SCIENCES was born, destined to absorb the old Institute,

to command the attention, the admiration, the love and support of every resident of the city, to foster the interests of other educational institutions, and to become a means for the education, the refinement and the uplifting of all.

### 1890-91

The growth of the Institute received a temporary check during the year 1890-91. On September 12th a serious fire in the Institute Building rendered it unfit for immediate use. But through the generous hospitality of other institutions in the city it was possible to carry on the work elsewhere. The Young Men's Christian Association, the Union for Christian Work, the Packer Collegiate Institute, the Brooklyn Library, the Polytechnic Institute, the Brooklyn Heights Seminary, the Church of the Saviour, the Adelphi Academy, and the Brooklyn Art Association each contributed the use of rooms for the lectures and the work of the Departments. And, notwithstanding the fact that the work was distributed at various points, the Institute's progress was of a permanent and substantial character. Three hundred and twelve new members were added. The membership of each of the twenty Departments was enlarged. The number of lectures and meetings was increased to three hundred and ten as against two hundred and thirty in the previous year. The attendance on the lectures was augmented, reaching a total of 99,200. The Geographical Department brought together a collection of geographical appliances, consisting of maps, globes, charts, reliefs, models, atlases, treatises, text-books and other publications, valued at \$6,000. The Geographical Collection was exhibited in Brooklyn for four weeks and in Boston for three weeks. The Boston Exhibition was visited by about 16,000 people, and the Brooklyn Exhibition by upwards of 27,000 people. Subscriptions

towards the Endowment Fund were made to the amount of \$51,500, and by an act of legislation (Chapter 89 of the laws of 1891) the city was authorized to expend \$300,000 in the erection of a portion of the proposed Museum of Arts and Sciences on Prospect Heights.

#### 1891-2.

During the fourth year of active work after the reorganization of the Institute, six hundred and thirty-two new members were recorded, of whom about one-third were teachers in our public and private schools; the Architectural Department established a school for junior architects and draughtsmen. The Department of Painting aided the Brooklyn Art Association in the establishment of an Art School. The Department of Geography exhibited its collection in New York City for four weeks for the benefit of the teachers and citizens of New York and vicinity. The Department of Music was established during the autumn by the members of the musical profession, with a membership of one hundred and seventeen. The Department of Pedagogy was organized in March with two hundred and six members from the teaching profession. The Photographic Department was provided with an excellent suite of rooms fitted up at an expense of about \$1,000. Two Summer Schools of Art were established, one of them at the seashore and the other in the mountains. The Departments of Architecture, Microscopy and Photography gave large and excellent exhibitions that were free to the public. The number of lectures and meetings by the Departments was increased from three hundred and twelve in the previous year to four hundred and five. The total attendance on the lectures, meetings and exhibitions was increased from ninety-nine thousand to one hundred and twenty thousand five hundred. Subscriptions to the Endowment Fund were

received amounting to \$16,000. The real estate belonging to the old Brooklyn Institute in Washington street was sold to the Trustees of the New York and Brooklyn Bridge, and the net proceeds of the sale, amounting to \$72,000.00, were invested in city bonds. The old Brooklyn Institute was consolidated with the new Brooklyn Institute of Arts and Sciences, transferring thereto its property and estate, amounting to \$139,286.00, in invested funds, together with collections, library and other property valued at \$42,450.00. The Mayor and Park Commissioner selected as the site for the proposed Museum Buildings the East Side lands, bounded by the Eastern Parkway, Washington avenue, the south side of old President street and the Prospect Hill Reservoir.

### 1892-3

During the fifth year the growth of the educational work of the Institute was greater than that of any preceding season. Nine hundred and forty new members were added to the roll; the number of lectures, addresses, concerts and exhibitions open to all the members was 482, as against 405 the previous year. The number of lectures and class exercises open to members and others by the payment of a moderate fee was 1,397, as against 1,134 the previous year; the number of concerts was increased from 8 to 15. The average daily attendance on the exercises of the Institute for the eight months of active work was 936, and the total attendance for the year 190,900. The annual income was increased from \$18,934.20 in the previous year to \$31,641.51. Institute Extension Courses of lectures were given in the eastern section of the city. The School of Political Science was established with four classes and ninety-six pupils. The Art School was transferred to new and larger quarters in the Ovington Studio Building, and the number of pupils was increased from ninety-four to one hundred and twenty-

eight. The Department of Architecture, acting through its Advisory Board, devised a scheme of competition for the best plan and design for the proposed Museum of Arts and Sciences, which was approved by the Board of Trustees, and adopted by the Mayor and Park Commissioner; and a competition for the best plan and design for a Museum Building was completed with most satisfactory results.

### 1893-4

During the sixth year of educational work under the new constitution nine hundred and seventy-nine new members were enrolled. The total number of members was increased from 2,622 to 3,457. The total number of lectures, conferences, class exercises, and Department meetings was increased from 1,879 to 2,212. The Department of Domestic Science was organized with a membership of forty-two. The annual income was increased from \$31,641.51 in 1892-3 to \$40,169.35. The average daily attendance on the exercises of the Institute was 1,177. The Mayor and Park Commissioner leased to the Institute eleven and nine-tenths acres of land for a period of one hundred years, at one dollar per year, as a site for the Museum Building. The Legislature of the State of New York authorized the expenditure of \$50,000, in grading the Institute Park lands, including the Museum site. The Department of Parks of the City of Brooklyn leased at a nominal rental the Bedford Park Building to the Institute for temporary Museum purposes. The Departments of Geography, Zoölogy, Botany, Geology, Mineralogy and Chemistry arranged their collections in the Bedford Park Building for public exhibition; and the State Legislature increased the rate of interest on the Museum of Art and Science Bonds to not exceeding four per cent. to enable the city to sell the bonds and to erect the first section of the Museum Building.

## 1894-5

During the seventh year of work under the new constitution, the growth in the annual income and in the attendance on the meetings of the Institute was in a measure checked by the general financial depression under which the country suffered, and also by the serious interruption of public travel caused by the strikes on the surface railways of the city. The number of members, however, was increased from 3,457 to 3,764. The total number of lectures, conferences, class exercises and Department meetings was 2,621 as against 2,212 in the previous year. The Department of Law was organized with a membership of one hundred and twenty-three. The Department of Entomology was reorganized with an increased membership. The annual receipts increased from \$40,169.35 to \$44,756.13. The Temporary Museum Building in Bedford Park was opened to the public on Thursday and Saturday afternoons. A fund of \$1,500 was raised to aid Prof. WILLIAM H. GOODYEAR in making a series of surveys and photographs of Mediæval Architecture in Italy. The site of the Brooklyn Museum of Arts and Sciences was surveyed, and the elevation of the base line of the building fixed at 175 feet above sea level. The working plans and specifications for the northern portions of the Museum were completed, and the Museum Commission advertised for contracts for the erection of the northwest section of the Museum Building.

## 1895-6

The year 1895-6 was one of the most eventful in the history of the Institute. The site for the Museum Building was graded during the months of September and October. The contract for the erection of the northwest section of the Museum Building was given by the Mayor and Park Commissioner on September 1 to Messrs. P. J. CARLIN &

Co. for \$254,675.00. Ground was broken with appropriate ceremonies by the Hon. FRANK SQUIER, Park Commissioner, for the foundation of the building, on September 14. The corner-stone of the structure was laid by Mayor CHARLES A. SCHIEREN on December 14, in the presence of a large gathering of citizens, and the construction was carried to the third floor of the building. The educational work was characterized by an increase in the attendance from 215,150 to 268,580. The number of lectures, class exercises and other educational gatherings was increased from 2,567 to 3,069. The net increase in the membership was from 3,764 to 4,168. The Department of Music gave a series of Philharmonic Concerts in conjunction with the Brooklyn Philharmonic Society by the Boston Symphony Orchestra. The receipts applicable to the payment of running expenses were increased from \$44,756.13 to \$66,199.73. The Endowment Fund received from the estate of the late JOSEPH T. PERKINS the sum of \$10,000.00. The Institute became the owner of a majority of the stock of the Brooklyn Art Association. The Herbarium and Botanical Collections of the late Rev. CHARLES H. HALL, D.D., LL.D., were presented to the Department of Botany by Mrs. HALL in accordance with the request of Dr. HALL; and the State Legislature authorized the continuance of work on the Museum Building at an expense not exceeding \$600,000.

Accompanying this growth the Institute suffered losses by the death of an unusually large number of valuable members. The Rev. CHARLES H. HALL, D.D., LL.D., for seven years President of the Associate Members, and six years a member of the Board of Trustees, died on September 12, 1895. Gen. JOHN B. WOODWARD, a member of the Board of Trustees for twenty-seven years, Secretary of the Board of Trustees for four years, and President of the Board of Trustees from 1888 to 1895, inclusive, died on March 5, 1896. Mr. JOHN D. JONES, the founder of the

Biological Laboratory at Cold Spring Harbor, and a generous contributor to its resources, died September 20, 1895, and Mr. JOSEPH T. PERKINS, a Patron of the Institute, died on July 12, 1895.

### 1896-7

The year 1896-7 witnessed an increase in the membership from 4,168 to 4,704, in the attendance from 268,580 to 302,426, in the number of lectures, conferences, concerts, readings and class exercises from 3,069 to 3,416, and in receipts from \$66,199.73 to \$67,983.85. The State Legislature passed a law providing \$10,000.00 for the care and maintenance of the Museum Building during the year 1897; included in the Charter of the Greater New York were provisions for the continuance of all laws affecting the Institute unimpaired, and for the care and maintenance of the Museum Building and its contents, an annual appropriation by the City of New York of a sum not less than \$20,000.00; and authorized the establishment of a Botanic Garden and Arboretum on the Park Lands south of the Museum site as a proper approach to the Museum Building. The first section of the Museum Building was completed on May 14, 1897. A very valuable loan collection of paintings and other works of art, comprising some six hundred entries, was placed in the galleries on the first and third floors during the latter part of May, and the entire Museum was thrown open to the public on Wednesday, June 2, to remain open daily for the benefit of all.

### 1897-8

During the tenth season, after the reorganization of the Institute effected in 1887-8, the Museum Building was equipped with engines, dynamos, electric ventilating fan, electric elevator, electric lights, natural history cases, furniture and fixtures, making the entire cost of the building

and equipment \$335,500.00. The Museum Building was dedicated with appropriate exercises on October 2. The Loan Collection of Paintings and other works of Art installed in May was kept on exhibition until November 1. A second loan collection of paintings was installed in November, numbering 421 canvases, and this collection, together with the paintings belonging to the Institute, continued on exhibition in the galleries on the third floor of the Museum. Portions of the Scientific Collections of the Institute in Mineralogy, Geology, Zoölogy, Botany, Entomology, Archæology, Geography and Ethnology were transferred from the Bedford Park Building to the new Museum and installed in the galleries in the basement and second floors. Loan Collections in Mineralogy, Paleontology, Entomology, Archæology and Ethnology were placed on exhibition from time to time in the galleries of the basement and second floors. Very valuable works of art were presented by Mr. A. AUGUSTUS HEALY, Mr. JAMES A. H. BELL, Mr. ABRAHAM ABRAHAM, Mr. JOSEPH JEFFERSON, Mr. E. K. AUSTIN, Mr. FREDERICK J. ADLER, Mr. C. F. BROOKS, Mr. SAMUEL P. AVERY, Mrs. SAMUEL B. DURYEA, Col. ROBERT B. WOODWARD, Mr. PETER LAUCKHARDT, the REMBRANDT CLUB and the estate of the late JOHN H. PRENTICE. Eighty-five selected casts from Greek and Roman Sculptures were presented by Members and friends of the Institute and installed in the Hall of Greek Sculpture on the first floor of the Museum. Mr. FRANK S. JONES presented the Institute with \$3,500.00, with which to purchase the GEBHARD GEOLOGICAL COLLECTION, representing the Paleontology of the State of New York. Subscriptions were made amounting to \$3,000.00 by Mr. HENRY H. BENEDICT, JAMES H. BATES, FRANK SHERMAN BENSON, Mrs. ARTHUR W. BENSON, Miss MARY BENSON, Hon. WILLIAM B. DAVENPORT, Hon. CHARLES A. SCHIEREN, Hon. TIMOTHY L. WOODRUFF, Mr. CHARLES B. HEWITT, Mr. HENRY K. DYER,

Mr. MARTIN JOOST and Mr. ALVAN R. JOHNSON, with which to purchase the WILLIAM WALLACE TOOKER COLLECTION of Indian Relics of Long Island and the Collection was purchased and installed in the Museum. Mr. JAMES A. H. BELL presented collections of paintings, sculptures and other works of art; a library of music, and collections in mineralogy and conchology. Very valuable additions were made to the Collections in Ornithology by Mr. A. B. LOUNSBERRY, Mr. ROBERT A. PEAVEY, Mrs. A. M. MATHESON, Mrs. N. L. TERRELL and others; to the Collections in Mineralogy by Mr. ALEXANDER M. WHITE, Mr. GEORGE L. ENGLISH, Mr. JOHN W. FRECKELTON, Mr. JAMES WALKER, Miss J. HUSSON, and others; to the Herbarium by JOHN COOPER, M.D., Mr. LUCIUS BELL and Mrs. NATHANIEL L. BRITTON; to the Archaeological Collection a series of Egyptian jars by Mrs. MARY L. BEERS.

The Library received additions numbering 1,048 volumes and many pamphlets. Fourteen shares of stock in the Brooklyn Art Association were presented in exchange for Life Membership Certificates in the Institute. Four courses of lectures were given in the Eastern District of Brooklyn. The Membership was increased from 4,704 to 5,417. The attendance on lectures, classes, concerts, readings and meetings of Departments was 334,670. The registered attendance at the new Museum Building was 126,046. The total attendance for the year reached 460,716. The annual income grew from \$67,983.85 to \$99,058.20. The City of Brooklyn appropriated \$10,000.00 to meet the expense of the care and maintenance of the Museum during the period June 1 to December 31, 1897. The City of New York set apart \$20,000 for the care and maintenance of the Museum during the year 1898, and the Department of Parks of the City of New York graded portions of the Museum grounds lying south of the Museum Building.

## 1898-9

During the educational year 1898-9 the membership was increased from 5,417 to 5,975; the number of lectures open to all members on the presentation of the weekly membership ticket from 544 to 572; the total number of meetings and class exercises from 3,558 to 3,806; the attendance on lectures, concerts, dramatic readings and class exercises from 334,670 to 360,980. The attendance at the Museum Building was 92,736, and the total attendance for the year 453,716. The annual income of the Institute, applicable to the payment of current expenditures, was increased from \$99,058.20 to \$119,965.12. Mr. FRANK S. JONES, Member of the Board of Trustees, presented to the Institute \$10,000.00 to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA, numbering some forty thousand specimens. Mr. EDWARD L. GRAEF, Curator of Entomology, presented to the Institute his entire Collection in Lepidoptera, numbering some fifteen thousand specimens. Mr. A. AUGUSTUS HEALY, President of the Board of Trustees, presented a colored Majolica Lunette by GIOVANNI DELLA ROBBIA, entitled "The Resurrection of Christ." Mr. WILLIAM T. EVANS presented a Portrait of WILLIAM CULLEN BRYANT by the late WYATT EATON. A large number of donations were made to the scientific and art collections, descriptions of which appear in the eleventh Year Book (1898-9), under the respective Departments to which the gifts naturally belong. To the scientific collections were added, by purchase, thirty compound microscopes and two microtomes for the Department of Microscopy, at an expense of \$1,124.50; apparatus for the Department of Physics at an expense of \$520.00; apparatus for the Department of Archæology costing \$560.00; apparatus for the Departments of Geography and Geology costing \$960.00. On the recommendation of the Council of the Institute the Trustees deter-

mined to establish a CHILDREN'S MUSEUM in the Bedford Park Building. Apparatus and collections for the equipment of this Museum were ordered at an expense of \$2,600.00. The SCHOOL OF PEDAGOGY was established with five classes and an enrollment of 522 students. Application was made by the Board of Trustees to the authorities of the City of New York for the issuing of bonds as authorized by law for the continuation of the work of construction on the Museum Building. This application was approved by the Department of Buildings, Lighting and Supplies, and was laid before the Board of Estimate and Apportionment of the City of New York in June, 1899.

#### 1899-1900

During this year the membership was increased from 5,975 to 6,391; the total number of lectures, class exercises, concerts, readings and Department meetings from 3,806 to 4,057; the attendance, exclusive of the Museums, from 360,980 to 390,255; the attendance at the Central Museum from 92,736 to 101,261; the attendance at the Children's Museum was 28,635, and the total attendance for the year was increased from 458,746 to 530,151. The annual income available for carrying on the educational work was increased from \$119,965.12 in 1898-9 to \$147,096.65. The Endowment Fund was increased by \$15,000, received from the estate of the late JOSEPH C. HOAGLAND, for ten years a Member of the Board of Trustees. This year was also distinguished by the organization of the Department of Philosophy; by the establishment and opening (on December 16, 1899) of the Children's Museum, and by the development of the Museum work. Prof. WILLIAM H. GOODYEAR, M.A., was appointed on full time as Curator of Fine Arts; Prof. R. ELLSWORTH CALL, M.D., Ph.D., as Curator of the Children's Museum; Mr. GEORGE K. CHERRIE as Curator of Ornithology; Mr.

CHARLES T. GOODWIN as Superintendent of the Museums; ALFRED G. MAYER, S.D., as Curator of Natural Science; ABEL J. GROUT, Ph.D., as Curator of Botany; Prof. JOHN S. MCKAY as Curator of the Collections in the Physical Sciences; Miss SUSAN A. HUTCHINSON as Librarian of the Department Libraries; Miss MIRIAM S. DRAPER as Librarian of the Children's Museum Library. The Scientific and Art Collections received many additions, described under the several Departments in the twelfth Year Book (1899-1900). Notable among these are a portrait of General JOHN B. WOODWARD, painted by FEDOR ENCKE, presented by Colonel ROBERT B. WOODWARD; a landscape entitled "On the Plains of Hungary," painted by OTTO DE THOREN and presented by Mr. JOHN B. LADD; a marble bust, entitled "The Madonna," Mr. WILLIAM ORDWAY PARTRIDGE, sculptor, presented by Mr. GEORGE FOSTER PEABODY, and a landscape by GEORGE H. BOGERT, presented by Mr. GEORGE A. HEARN. During this year the Institute purchased from Mr. JAMES J. TISSOT, of Paris, his collection of four hundred and sixty-one paintings and drawings, illustrating the life of Christ, for the sum of \$60,000.00, and raised by subscription \$53,000.00 towards the purchase price. Also during this year the city government authorized the issue of the corporate stock of the city to the amount of \$300,000.00, with the proceeds of the sale of which funds were made available for the erection of the masonry and iron work of the second section of the Museum Building. The contract for the work was let in May for \$296,000.00, and ground was broken on June 6 with appropriate exercises.

1900-01

During the twelfth year since the reorganization of the Institute the membership was increased from 6,391 to 6,836; the attendance at the Children's Museum was 79,756; at the

Central Museum 110,634, and at the lectures, concerts, readings, courses of instruction, exhibitions, etc., was 351,736; the total attendance for the year was 542,126, as against 530,151 in the preceding year; and the total income was increased from \$147,096.65 to \$197,844.33. The subscription to the fund for the purchase of the TISSOT COLLECTION OF PAINTINGS ILLUSTRATING THE LIFE OF CHRIST was increased from \$53,000 to \$60,000; the paintings were paid for by the Institute in January; two galleries on the third floor of the Museum were provided with screens and re-decorated to receive the paintings; the entire collection was re-framed at an expense of about \$4,000, and the pictures were hung for permanent public exhibition in May. The Institute received an unusually large number of gifts during the year; the more notable of those added to the art collections were as follows: From Col. ROBERT B. WOODWARD, 490 pieces of ancient Syrian and Egyptian glass; from Messrs. A. AUGUSTUS HEALY and FRANK HEALY, an oil painting by LOUIS GALLAIT, entitled "The Last Honors to Counts Egmont and Horn;" from Mr. WILLIAM A. PUTNAM, an oil painting by BEN FOSTER, entitled "A Misty Moonlight Night;" from Mr. GEORGE A. HEARN, an oil painting entitled "Dordrecht," by GEORGE H. BOGERT; from Hon. CARLL H. DE SILVER, 18 pieces of Japanese ceramic art and an oil painting entitled "A Landscape," by HENRY P. SMITH; from Mrs. THEODORE JACOBY, a Wagner alto Viola; from Mr. L. W. LAWRENCE, a bronze replica of the "Flying Mercury," by GIOVANNI DE BOLOGNA; from Mr. A. E. OVERTON, a pair of Japanese Satsuma Vases; from Mr. BENJAMIN T. FROTHINGHAM, 209 mounted photographs from negatives taken by Dr. SCHLIE-MANN at Troja, Mycenae and Tiryns; and from eleven of the Trustees a portrait of William Cullen Bryant by DANIEL HUNTINGTON. To the scientific collections gifts were made during the year of 19,429 specimens; among the

larger of these gifts were the following: From Mr. WILLIAM LINCOLN CHAPEL, 3,147 birds' eggs, nests and skins; from Mrs. JOHN H. BURTIS, 2,500 shells, together with a collection of corals and ethnological specimens; from Mrs. GEORGE D. HULST, about 12,000 plants from the collection of the late Rev. GEORGE D. HULST, Ph.D.; from Hon. EUGENE G. BLACKFORD, 145 specimens of fossil fishes and nearly an equal number of specimens of living species; from the Hon. CHARLES A. SCHIEREN, 117 species of Cliff Dwellers' Pottery and relics; from Mr. CHARLES HOWARD REMINGTON, 440 birds' eggs, also several fossils and Indian relics; from Mrs. ANNIE MORRILL SMITH, 167 plants; from THE H. W. JOHNS MANUFACTURING COMPANY, 77 specimens of asbestos, native and manufactured; from Dr. ABEL J. GROUT, 150 plants; from Mr. JACOB DOLL, 297 insects and vertebrates; from Mr. ROBERT W. PEAVEY, 22 mounted birds; from Mrs. J. P. GERAN, 18 mounted birds; from Mr. GEORGE K. CHERRIE, 10 birds and mammals. The Museum received an unusually large number of valuable loans to its art collections; from Mr. A. AUGUSTUS HEALY, 30 paintings; from Col. ROBERT B. WOODWARD, 18 paintings; from Mr. HENRY H. BENEDICT, 3 paintings; from Mr. J. WILLIAM BROWN, 2 paintings; from Col. HENRY T. CHAPMAN, 3 paintings; from Mrs. CHARLES R. BAKER, 5 paintings; from Mr. JOHN S. JAMES, 4 paintings; from Mr. CHARLES HOWARD REMINGTON, 12 paintings; from Mrs. ANNA STEWART GOODWIN, Mrs. CORNELIA K. HOOD, the Hon. FRANK SQUIER and Mr. RUSSELL STURGIS 2d, 1 painting each; from the ARION SINGING SOCIETY, the Emperor's Prize of Honor; from Mr. FRANCIS LE BARON, 9 of the original bronzes by John Rogers; from Mr. CLAYTON L. MOAK, a Japanese Art Collection; from Mr. A. A. HOPKINS, a collection of Italian photographs. The Museum acquired by purchase, collection and exchange 1,754 additions to its scientific collections, and a large collection of electrotype reproductions

of the British Museum collection of Greek coins. The Mastodon skeleton presented to the Institute in 1889 was mounted in the Museum Building; the Department Libraries at the Central Museum and the Children's Museum Library in Bedford Park were organized and made available for use by the public; four new rooms were fitted up for exhibition purposes in the Children's Museum, and Volume I., No. 1, of the Science Bulletin of the Museum was published. The City of New York appropriated for the maintenance of the Institute Museums for the year 1901, \$55,000. The work of construction of the second section of the Museum Building was in progress throughout the year and the masonry was carried up to the base of the dome previous to July 1. The plans and specifications for the completion of the second section were made by the architects. Application to the Park Commissioner of Brooklyn and Queens, the Hon. GEORGE V. BROWER, for the issue of bonds to provide for the continuance of work on the Museum Building was made by the authority of the Trustees and Council, and the Park Commissioner made requisition on the Board of Estimate and Apportionment of the City of New York for the issue of bonds to the amount of \$300,000, by the sale of which provision may be made for the continuance of the work of Museum construction.

#### 1901-2

During the year 1901-2 the membership was increased from 6,836 to 7,215; the attendance at the Children's Museum was 84,487; at the Central Museum 113,995; at the lectures, concerts, readings, class exercises, exhibitions, etc., 254,361; and the total attendance for the year was 452,803, and the total annual income \$146,077.52. The additions to the Scientific Collections of the Museum numbered 25,007, among the more important of which was a collection of

Marine invertebrates from Japan, presented by the Hon. EUGENE G. BLACKFORD; a collection representing the Marine life of the North Atlantic coast, made by ALFRED G. MAYER, S.D.; the S. E. STILES COLLECTION OF MICROSCOPICAL APPARATUS AND PREPARATIONS; a large collection of mosses presented by Mrs. ANNIE MORRILL SMITH; a collection of 4,000 specimens of Lepidoptera, presented by CHARLES S. MCKNIGHT, M.D.; a collection of surveys, maps and pictures of Peru, presented by the Hon. FRANK SQUIER, and a collection of 116 pieces of pottery from the Cliff Dwellings and Pueblos of Arizona and New Mexico, presented by the Hon. CHARLES A. SCHIEREN. The gifts in the Departments of Fine Arts include additions to the collection of ancient Oriental glass, made by Col. ROBERT B. WOODWARD; several Japanese Ceramics and small swords, and a large Chinese bowl, presented by Hon. CARL H. DE SILVER; a painting entitled "Strandgut," painted by Adolf Herring, presented by Mr. HENRY BATTERMAN; and two paintings of unusual value presented by Mr. A. AUGUSTUS HEALY, entitled "Meditation," by G. Belloni, and "The Apple Orchard," by Dau-bigny. \$500.00 was contributed by Mr. ABRAHAM ABRAHAM to support courses of lectures on the Fine Arts; \$500 by Mr. GEORGE A. HEARN, to be used in purchasing photographs of Italian Art; \$1,250 was subscribed to a fund for explorations in the Southwest, and \$1,150 for the purchase of the RIGGS COLLECTION OF ANCIENT PUEBLO POTTERY. The largest gift ever received by the Institute from a single citizen was the addition to the permanent endowment of \$50,000, presented by Col. ROBERT B. WOODWARD, and to be known as the Woodward Memorial Funds; \$25,000 of which is a fund in memory of the late JOHN B. WOODWARD, and the balance of \$25,000 is a fund in memory of ELLA C. WOODWARD—the interest of these two funds to be used in the purchase of works of Art for the Museum. The City of New York issued in December, 1901, corporate stock to the

amount of \$300,000, the proceeds of the sale of which are to be used in completing the Central Section of the Museum, and appropriated for the annual support and maintenance of the Institute Museums the sum of \$60,000. The exterior of the Central Museum Section was completed during the year, and the Department of Parks awarded in June, 1902, the contract for the interior work at \$274,500. The Board of Estimate and Apportionment authorized the issue of corporate stock of the City to the amount of \$150,000 to provide a power-house and power-plant, together with fixtures and decorations for the Central Section of the Museum.

### 1902-3

During this educational year, the attendance at the Children's Museum was 110,834; at the Central Museum 109,395; at the lectures, concerts, class exercises, exhibitions, etc., 255,757; the total attendance for the year was 465,986. The total income was \$159,958.09. The Endowment Funds were increased by the sum of \$16,400, through a gift of \$10,000 by Mr. FREDERICK LOESER, the interest of which is to be expended annually in the purchase for the Museum of photographs of paintings and other works of art, plaster casts of important sculptures, and, in case the Museum is well supplied with these, of works of art; and also through a bequest made by the late JAMES A. H. BELL, the amount of which so far received is \$6,400.

The additions to the scientific collections numbered 13,480, and among the more important of these was a collection of marine animals from the North Atlantic Coast, made during an expedition in the summer of 1902 by Dr. ALFRED G. MAYER; some 150 mammals, birds and reptiles from the New York Zoölogical Garden; some 50 birds from the Rockaway Rod and Gun Club; three very valuable skins of Mammals from Mrs. WILLIAM B. DAVENPORT; and a

large collection of fossils from New York State, made by Mr. FREDERICK BRAUN. The additions to the art collections include six very valuable paintings from the estate of the late HENRY W. MAXWELL; an oil painting entitled "A Gray Morning," by LEONARD OCHTMAN, from the income of the Woodward Memorial Funds; extensive collections of Japanese and Chinese works of art presented by Col. ROBERT B. WOODWARD, Mr. GEORGE C. BRACKETT and Hon. CARLL H. DE SILVER; an oil painting entitled "A Winter Scene in Norway," by J. JUNGBLUT, from Mr. HENRY BATTERMAN; a Japanese carving in wood and ivory with gold lacquer ornaments representing the Chinese warrior WU YUNG, presented by Mr. THOMAS T. BARR; an oil painting "The Morteratsche Glacier, Upper Engadine," by ALBERT BIERSTADT, presented by Mrs. ALBERT BIERSTADT; a Japanese palanquin, a Japanese wrought-iron eagle, and a Japanese image representing the Dragon King RIO WO, presented by Hon. ALFRED T. WHITE; a replica of the Lemnian Athene from the bronze original by PHIDIAS, presented by Mr. GEORGE FOSTER PEABODY; and 69 additional pieces of European china from the Rev. ALFRED DUANE PELL. Among the important loans to the art exhibits of the Museum are 34 oil paintings from Hon. CARLL H. DE SILVER; 18 oil paintings from the Hon. CHARLES A. SCHIEREN, and a collection of Japanese lacquers, bronzes and porcelains from Mr. CLAYTON L. MOAK; a collection of 45 18th Century fans from Mrs. E. LE GRAND BEERS; a painting from Mrs. E. L. GOODNOW and Mrs. I. L. BIGELOW; one painting each from Mr. ROBERT J. KIMBALL, WILLIAM S. HUGHES and Col. HENRY T. CHAPMAN; and 119 pieces of Tiffany favrile glass loaned by Mr. CHARLES W. GOULD. Fuller descriptions of the accessions to the scientific and art collections will be found under the reports of the Museum (1902-3).

The Department of Ethnology was established in February, and Mr. STEWART CULIN was appointed Curator of Ethnology in March, 1903. Seventeen of the Trustees subscribed each \$100 to meet the expenses of making collections in Ethnology in Arizona and New Mexico. Mr. CULIN was sent in April on a six months' expedition to the southwest, and the very large ethnological collections made by Mr. CHARLES DAY, of Arizona, were purchased by Mr. CULIN through the generosity of Messrs. A. AUGUSTUS HEALY and GEORGE FOSTER PEABODY for the Museum. The collections in Ethnology were also enriched by important gifts of objects from Hawaii, presented by Col. ROBERT B. WOODWARD and Mr. GEORGE C. BRACKETT; by collections of pottery from the Pueblos of New Mexico and Arizona, presented by the Hon. CHARLES A. SCHIEREN; and by Chinese and Indian coins presented by Mr. ROBERT C. W. BROCK, of Philadelphia. Messrs. JACOB DOLL and CARL SCHAEFFER were sent on an entomological expedition to Texas during the months of April to July. Dr. ALFRED G. MAYER made an expedition to the Bahamas during June and July to study the marine life of the Bahama Archipelago, and to make collections for the Museum. A fund of \$1,000 was raised to defray the expenses of an expedition by Prof. WILLIAM H. GOODYEAR to study the architecture of France and Constantinople.

The work of completing the interior of the second section of the Museum Building was under way during the entire year. Contracts were made during the year by the Department of Parks of the City of New York for a Museum power house and power plant at \$78,693; for Natural History cases for the second floor of the Museum at \$23,450; for orchestra chairs for the Museum auditorium at \$13,272. The City appropriated for the annual support and maintenance of the two Museums of the Institute \$70,000. Plans and specifications for the third section or eastern wing of the

northern façade of the Museum Building were prepared by the architects and on July 1, 1903, the Board of Estimate and Apportionment of the City authorized the issue of the corporate stock of the City to the amount of \$454,000 to provide for the construction of the third section or eastern wing of the Museum and the continuance of work on the central pavilion or second section.

#### 1903-4

During the year 1903-4, the work of the Institute was seriously affected by the destruction on November 30 of the Academy of Music, in which the most largely attended concerts and lectures had been given. Through the courtesy of the pastor, officers and trustees of the BAPTIST TEMPLE, the use of the Temple was very generously made available for the larger concerts during the year, and most of the educational work was carried out as planned, though on a somewhat smaller scale.

To the collections in the Department of Ethnology a collection of carved figures and implements from the south sea islands was added through the generosity of Mr. A. AUGUSTUS HEALY, Hon. CARL H. DE SILVER and Col. ROBERT B. WOODWARD. A collection illustrating the ethnology of the Zuni Indians was presented by several Trustees of the Institute at an expense of \$1,000. Some one hundred and seventeen enlarged bromide photographs, illustrating the architecture of France, from negatives obtained from Prof. WILLIAM H. GOODYEAR in the summer of 1903 were made, framed, exhibited for three weeks in the Boston Public Library in April and hung in the Museum in May. Large additions were made to the Natural Science Collections through the expeditions (1) of ALFRED G. MAYER, S.D., to the Bahamas and to the coast of Massachusetts; (2) of Messrs. JACOB DOLL and CARL SCHAEFFER to southern Texas, and through gifts from the New York Zoological Society.

and many friends of the Institute. The position of Curator-in-chief of the Museums was created in February and held by ALFRED G. MAYER, S.D., from February until May 15 and after that date by Mr. FREDERIC A. LUCAS. Subscriptions were made during the year for the purchase of the painting "The Vision of the Dying Virgin," by CORNELIS SCHUTT, amounting to \$3,600; for the Biological Laboratory at Cold Spring Harbor, \$980, and for the purchase of collections for the Museum, \$5,600. The Rev. ALFRED DUANE PELL added some 200 pieces to his collection of European China. Mr. GEORGE A. HEARN presented a landscape painting by GEORGE H. BOGERT. Bequests were received from the estate of HENRY K. SHELDON of \$2,375, to be added to the general endowment fund, and of \$9,500, the income from which is to be used in support of Orchestral and Chamber Music concerts. Bequests were also received from the estates of Mrs. AUGUSTA M. OSBORN of \$1,905, and from WILLIAM F. SEBERT of \$500, together with two telescopes equatorially mounted.

Contracts were let during the year by the Department of Parks, with the advice and approval of the Trustees, for 38 ethnological cases at \$18,496, and for painting the interior of the second Museum section at \$6,850. The Second Section of the Museum was completed in June and the Power House and Power Plant in July, 1904. The Natural History Cases were set up on the second floor of the second Museum section in May and June, at a cost of \$23,450. The City appropriated for the maintenance of the Museums for the year \$70,000, and the entire income of the Institute was \$162,873.60. The contract for erecting the eastern wing or third section of the Museum was awarded by the Department of Parks in December, 1903, at \$407,315, and in February, 1904, for the electric light fixtures for the second Museum section for \$7,216. On June 17, the Board of Estimate and Apportionment appropriated \$97,000, to be

used in constructing the front steps and central approach to the Museum and in defraying the cost of carving the pediment of the front portico of the Museum. The work of building the third section of the Museum was begun by the breaking of ground on March 7 and by the laying of the foundations on June 15.

#### 1904-5

In this educational year the number of members of all classes was 6,897; the attendance at the Children's Museum 88,413, at the Central Museum 107,150, at the lectures, concerts, readings, classes, etc., 211,587, and the total attendance was 407,318. The Endowment Funds were increased by \$1,100 contributed by women of Brooklyn, the interest of which will be used in providing law lectures for women by women, and by \$ 6,293.41, the final payment by the estate of the late JAMES A. H. BELL. The subscriptions to special funds were \$500 from Mr. A. A. Low for Lectures on the Fine Arts, \$1,225 for researches at the Biological Laboratory, Cold Spring Harbor, and \$15,047.25 for the Museum Collection Fund subscribed by many members.\* The total income for the year ending May 1, 1905, was \$174,537.35.

Among the more important additions to the Museum Collections were a marble sculpture entitled "Poetry," by SALVATORE ALBANO, purchased with proceeds of the ELLA C. WOODWARD MEMORIAL FUND; a marble sculpture entitled "Polyxena" by WILLIAM W. STORY, presented by Mr. GEORGE FREIFELD; a marble sculpture entitled "Christ and St. John," heroic size, by WILLIAM ORDWAY PARTRIDGE, presented by Mrs. CHARLES R. BAKER, in memory of the late Rev. CHARLES R. BAKER, D.D., Rector of the Church of the Messiah for many years, and a trustee of the Institute from 1890 until his decease in 1898; a marble sculpture en-

\* For a list of subscribers see Table of Contents.

titlèd "Eve" by HIRAM POWERS, presented by Mrs. MARY S. CROXSON; an antique Roman Torso of a caryatid of the 1st or 2d Centuries, in Cipollino marble, recently found in Rome, presented by Mr. A. AUGUSTUS HEALY; a bronze sculpture by BARYÉ entitled "The Lapith and the Centaur," presented by Mrs. FANNIE AVERY WELCHER; a painting by EDWIN L. WEEKS entitled "Hour of Prayer at the Pearl Mosque, Agra," presented by Mr. GEORGE D. PRATT; a painting by EDWIN L. WEEKS entitled "A Scene in Morocco," purchased with Museum Collection Fund of 1904; a painting by W. T. RICHARDS entitled "On the New England Coast," presented by Mr. SAMUEL P. AVERY; a painting entitled "A Gray Morning," by LEONARD OCHTMAN, purchased from the JOHN B. WOODWARD Fund; a painting entitled "Autumn Oaks, Forest of Fontainbleau," by PAUL DOUGHERTY, presented by Mr. GEORGE FOSTER PEABODY; a painting by GEORGE H. BOGERT, entitled "Dordrecht," presented by Mr. GEORGE A. HEARN; a painting called "The Captive," by R. A. BLAKE-LOCK, presented by the Hon. CHARLES A. SCHIEREN; a Sicilian Cart, from Palermo, presented by Mr. GEORGE C. BRACKETT; a collection of Chinese porcelain vases and Japanese pottery, presented by the Hon. CARL H. DE SILVER; a collection of coins and two casts of Greek and Græco-Roman relief, presented by Mr. FRANK SHERMAN BENSON; a collection of Japanese lacquers and one bronze ink horn, presented by Col. ROBERT B. WOODWARD; a painting entitled "On the Bosphorus," by F. A. BRIDGEMAN, presented by Mr. PETER GEDDES; a collection in Egyptology, purchased by Mr. FLINDERS PETRIE, and paid for out of the Museum Collection Fund of 1904; a collection of Egyptian bronzes and a collection of Tenagra figures purchased with the Museum Collection Fund of 1905; a collection of gold ornaments (100 B. C. to 200 A. D.), purchased with the ELLA C. WOODWARD Fund; a collection in Greek and Roman

Archæology, purchased from George N. Olcott, Ph.D., with the Museum Collection Fund of 1904. Ethnological collections from the Southwest were purchased by Mr. STEWART CULIN with the aid of the Museum Collection Fund of 1904, at a cost of \$1,553.85. To the Natural History collections many additions were made with the aid of the Museum Collection Fund of 1904 and through the generosity of friends. The Rev. J. L. ZABRISKIE presented a very complete collection of the Fungi of Long Island. Lists of gifts and also of loans to the Museum collections are printed under the several departments.

Expeditions were made by Mr. GEORGE K. CHERRIE, Curator of Ornithology, to the Valley of the Orinoco; by Mr. STEWART CULIN, Curator of Ethnology, to Arizona and California, and by Mr. CARL SCHAEFFER, Assistant Curator of Entomology, to Arizona and New Mexico.

The pavilion or second section of the Museum was completed and turned over by the Park Department to the Institute on February 11th; the power house and power plant were completed and turned over to the Institute on March 21st; the new lecture hall, with a seating capacity of 1,250, was first opened for lectures on March 4th. During March, April and May, collections were installed in the galleries of the Second Section of the Museum, and this section, together with the Hall of American Ethnology was formally opened to the public on the evening of June 1st.

On the recommendation of the Institute and at the request of the Park Commissioner, the Hon. MICHAEL J. KENNEDY, the Board of Estimate and Apportionment on March 15th and the Board of Aldermen on April 18th authorized the issue of corporate stock of the City to the amount of \$131,000, to be used in providing thirty monolithic sculptures for the façades of the Museum Building, cases for the third Museum section, and roadways, walks, sewers, grading and sodding in the rear of the Museum.

The sum of \$75,000 was appropriated for the maintenance of the Institute Museums for the fiscal year 1905. On April 12th Governor Higgins signed a legislative enactment requiring the removal of the Kings County Penitentiary from its present location easterly from the Museum. On June 23d the Board of Estimate and Apportionment authorized the purchase by the City, as an addition to Institute Park, the triangle of land directly east of the Museum site and bounded by the Eastern Parkway, Classon and Washington avenues. On June 15th, the Park Department awarded the contract for the roadways, walks, sewers, grading and sodding in the rear of the Museum at \$10,200.

The work of constructing the third or eastern section of the Museum was under way during the entire year, and on July 1st the walls were at the eave-line of the building. The architects, Messrs. McKim, Mead and White, prepared final drawings and specifications for the front steps and central approach to the Museum, including extensive storage room under the steps and platform, and the contract for the building of the steps, central approach and storage room was awarded on June 22d to the P. J. Carlin Construction Company at \$88,900.

The Institute has been without the use of an Academy of Music building since November, 1903. The Board of Directors of the New Academy of Music has prepared specifications during the year for a building intended to accommodate the work of the Institute. The new building will include a main auditorium seating 3,000, a chamber music room seating 1,500, a lecture room seating 500, class rooms, studio rooms and offices of administration to meet the needs of the Institute.

## THE GROWTH OF THE INSTITUTE

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### I — THE MEMBERSHIP

	Number of Members.	Annual Increase
June 1, 1888	82	
" 1889	352	270
" 1890	1,118	766
" 1891	1,342	206
" 1892	1,782	458
" 1893	2,622	840
" 1894	3,457	835
" 1895	3,764	307
" 1896	4,168	404
" 1897	4,704	536
" 1898	5,417	713
" 1899	5,975	558
" 1900	6,391	416
" 1901	6,836	445
" 1902	7,215	379
" 1903	7,278	63
" 1904	6,974	*304
" 1905	6,897	*77

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\*Decrease.

II—THE NUMBER OF LECTURES, MEETINGS AND CLASS EXERCISES

	Meetings Open to All Members.	Special Meetings and Class Exercises	Total Number of Meetings.
1887-88	18	60	78
1888-89	90	104	194
1889-90	230	215	445
1890-91	312	622	934
1891-92	405	1,134	1,539
1892-93	482	1,397	1,879
1893-94	489	1,723	2,212
1894-95	496	2,125	2,621
1895-96	502	2,567	3,069
1896-97	541	2,875	3,416
1897-98	544	3,014	3,558
1898-99	572	3,234	3,806
1899-00	593	3,464	4,057
1900-01	591	3,653	4,244
1901-02	562	3,610	4,172
1902-03	564	3,728	4,202
1903-04	542	3,536	4,087
1904-05	473	3,530	4,003

III—ATTENDANCE

	Attendance Children's Museum.	Attendance Central Museum.	Attendance at Lectures, Exhibitions, etc.	Total Attendance for Year
1887-88			6,900	6,900
1888-89			18,300	18,300
1889-90			46,950	46,950
1890-91			99,200	99,200
1891-92			120,500	120,500
1892-93			190,900	190,900
1893-94			212,415	212,415
1894-95			215,150	215,150
1895-96			268,580	268,580

	Attendance Children's Museum.	Attendance Central Museum	Attendance at Lectures, Exhibitions, etc.	Total Attendance for Year.
1896-97			302,426	302,426
1897-98		126,046	334,670	460,716
1898-99		92,736	360,980	453,716
1899-00	28,261	101,261	390,225	519,747
1900-01	79,756	110,634	351,736	542,126
1901-02	84,487	113,955	*254,361	452,803
1902-03	110,834	109,395	*255,757	465,986
1903-04	95,738	115,695	*235,587	431,713
1904-05	88,413	107,150	*211,587	407,318

\*There were no important public exhibitions of pictures or other collection outside of the museums in 1901-2, 1902-3 and 1903-4.

†The Institute has not had the use of any Academy of Music Building since Nov. 1903 for its larger gatherings.

#### IV.—INCREASE IN RESOURCES

	Income.	Permanent Funds
1887-88	\$4,456 70	\$37,000 00
1889-90	11,412 25	66,000 00
1890-91	13,218 11	139,000 00
1891-92	18,934 20	206,000 00
1892-93	31,641 51	211,000 00
1893-94	40,169 35	215,000 00
1894-95	44,756 13	218,383 00
1895-96	66,199 73	228,053 00
1896-97	67,983 85	228,453 00
1897-98	99,058 20	232,153 00
1898-99	119,965 12	232,153 00
1899-00	147,096 65	247,153 00
1900-01	*197,844 33	256,047 73
1901-02	146,077 52	306,047 73
1902-03	159,958 09	322,447 73
1903-04	162,873 60	336,147 73
1904-05	174,537 35	343,541 14

\*This sum includes subscriptions to the Fund for the purchase of "The Tissot Collection of Pictures Illustrating the Life of Christ" amounting to \$35,000.

## WORK OF THE YEAR 1904-1905

### THE FIRST GENERAL MEETING OF MEMBERS

The Opening Meeting for the year 1904-1905 was held on Monday evening, September 26th, in Association Hall. The address was delivered by Dr. BOOKER T. WASHINGTON, President of the Tuskegee Normal and Industrial Institute, on the subject "Learning by Doing."

### THE HAWTHORNE CENTENNIAL MEETING.

The Hawthorne Centennial Meeting was held on Monday evening, October 17th, in Association Hall. An address on "Nathaniel Hawthorne and his Works" was delivered by BLISS PERRY, L.H.D., Editor of the *Atlantic Monthly*.

### AN INAUGURAL MEETING

A general meeting was held Tuesday evening, November 1, in Association Hall, at which the Valedictory Address was delivered by Rev. ALBERT J. LYMAN, D.D., the retiring President of the Council and of the Associate Membership; and an Inaugural Address on "The Moral Aspect of Education" by the Rev. L. MASON CLARKE, D.D., President-elect of the Council and of the Associate Membership.

### THE GRAHAM FOUNDATION LECTURES

In presenting to the INSTITUTE its first Endowment Fund, Mr. AUGUSTUS GRAHAM stipulated that the income of a portion of the fund should be used in providing, from time to time, courses of Sunday evening lectures on "The Power, Wisdom, and Goodness of God as Manifested in His Works."

The Graham Foundation Lectures for the past year were

delivered by Prof. WILLIAM H. PICKERING, S.B., of Harvard University, with special reference to the Moon and the planet Mars; in the Art Building, as follows:

*Jan. 8.*—"The Moon as a Whole."

*Jan. 15.*—"The Lunar Surface."

*Jan. 22.*—"Active Lunar Craters, Ice on the Moon."

*Jan. 29.*—"Vegetation on the Moon. Mars."

The lectures were illustrated by lantern photographs.

### THE SCHILLER MEMORIAL MEETING

The Members and guests of the Institute commemorated the One Hundredth Anniversary of the decease of FRIEDRICH VON SCHILLER on the evening of Monday, May 8, in Association Hall. The Hon. CHARLES A. SCHIEREN presided. The Memorial Address was delivered by Prof. JOHN F. COAR, Ph.D., President of the German Section of the Institute; and the Rev. JOHN J. HEISCHMANN, D.D., of Brooklyn, spoke (in German) on "Schiller's Influence upon Germans." Music was furnished by the BROOKLYN ARION SOCIETY, Mr. ARTHUR CLAASSEN, Conductor.

### GENERAL EXHIBITIONS BY THE DEPARTMENTS

1. The LOAN EXHIBITIONS OF PAINTINGS AND OTHER WORKS OF ART were continued throughout the year in the Galleries on the third floor of the Museum Building in conjunction with the permanent exhibition of the Institute Collections of Paintings and other works of Art.

2. The TISSOT COLLECTION OF PAINTINGS, illustrating the Life of Christ, is on permanent exhibition in two of the galleries on the third floor of the Museum Building, and is open to the public at the same hours as the Museum.

The TISSOT COLLECTION of 365 paintings illustrating OLD

TESTAMENT HISTORY was on exhibition in the galleries of the Brooklyn Art Association, 174 Montague street, under the auspices of the Institute, from Monday, October 31st, to Sunday, November 13th, inclusive. This was the first exhibition of the paintings in America.

3. The DEPARTMENT OF MICROSCOPY gave its EIGHTEENTH ANNUAL EXHIBITION at the Art Galleries in Montague street on Saturday evening, February 11, from 8 until 11 o'clock. Thirty-eight microscopes were in use during the evening. An account of the Exhibition may be found under the Department of Microscopy.

4. The DEPARTMENT OF PHOTOGRAPHY gave its FIFTEENTH ANNUAL EXHIBITION OF PHOTOGRAPHIC PRINTS AND PHOTOGRAPHIC APPARATUS in the Art Galleries in Montague street, from Saturday, April 29, to Saturday, May 5, inclusive. A catalogue of the exhibition was printed containing two hundred and sixty-eight entries. A full account of the Exhibition will be found under the Department of Photography.

The main collections of the DEPARTMENTS OF ARCHAEOLOGY, ARCHITECTURE, BOTANY, CHEMISTRY, ENTOMOLOGY, ETHNOLOGY, GEOGRAPHY, GEOLOGY, MINERALOGY, SCULPTURE and ZOOLOGY are on permanent exhibition at the New Museum Building on Prospect Hill, and are open and free to the public from 9 A. M. to 6 P. M. on Wednesday, Thursday, Friday and Saturday of each week, and on all legal holidays except Sunday; also on Thursday evenings of each week from 7.30 to 9.45 P. M., and on Sunday afternoons from 2 to 6 o'clock. The collections are open to the public on Mondays and Tuesdays of each week, from 9 A. M. until 6 P. M., by the payment of twenty-five cents for adults and ten cents for children under sixteen years.

## WORK OF THE DEPARTMENTS

### DEPARTMENT OF ARCHÆOLOGY

The Department was organized on May 8, 1889, with twenty-four members. The membership in 1904 was one hundred and forty-four.

By vote of the Members of the Department and the approval of the Council and Board of Trustees the organization of the Department was discontinued in November, 1904, and authority was given to the Departments of Ethnology and Fine Arts to carry on the work hitherto assigned to the Department of Archæology.

The Collections of the Department on exhibition in the Museum were the WILLIAM WALLACE TOOKER Collection of Indian Relics of Long Island; the GEORGE F. KUNZ Collection of Relics from the Mississippi Valley; the WARD Collection of Models of Pueblos and Cliff Dwellings; the FREDERICK W. STARR Collection of Models of Portrait Busts of Pueblo Indians and of Pueblo Sculptures; the CHARLES A. SCHIEREN Collection of Pottery from the Cliff Dwellings and from Peru; the FRANKLIN W. HOOPER Collection of Swiss Lake Dwelling Relics; the CLARENCE W. RIGGS Collection of Pueblo Pottery, and the Collection of electrotype reproductions of the British Museum Collection of Greek Coins. The Department also has on exhibition the following loan collections: (1) The RUSSELL STURGIS, 2d, Ethnological Collection from the Pacific Islands, and (2) the STANSBURY HAGAR Collection of Indian Relics.

All of the foregoing collections have been transferred to the Department of Ethnology.

### DEPARTMENT OF ARCHITECTURE

J. MONROE HEWLETT, Ph.B.  
HENRY M. CONGDON  
WOODRUFF LEEMING, B.S.

*President*  
*Vice-President*  
*Secretary*

*Executive Committee*

J. MONROE HEWLETT	AUSTIN W. LORD
RUDOLPH L. DAUS	STEPHEN W. DODGE
Prof. A. D. F. HAMLIN, M.A.	PETER I. COLLINS
WOODRUFF LEEMING, B.S.	ARNE DEHLI
GEORGE L. MORSE	GEORGE M. LAWTON
	HENRY M. CONGDON

*Committee on Current Work*

ARNE DEHLI	FRANK H. QUIMBY
	ALBERT A. HOPKINS, B.A.

*Committee on Museum*

AUSTIN W. LORD	CHARLES F. MCKIM
	Prof. WILLIAM H. GOODYEAR, M.A.

*Committee on Competitions and Awards*

Prof. A. D. F. HAMLIN	Rev. WILLIAM H. INGERSOLL
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*Committee on Public Works*

GEORGE L. MORSE	RUDOLPH L. DAUS
	GEORGE M. LAWTON

*Committee on Social Intercourse*

STEPHEN W. DODGE	DANIEL G. MALCOLM
	ANDREW G. THOMPSON

*Committee on Finance and Audit*

PETER I. COLLINS	GEORGE T. MORSE
	A. MILTON NAPIER

The Department of Architecture was organized on December 13, 1889, with a membership of one hundred and eight. The present membership is two hundred and twenty-two. The meetings of the Department are held, as far as practicable, on the second Wednesday evening of each month. The lectures during the past season were as follows and were in conjunction with the Department of Fine Arts:

*Nov. 26 and Dec. 20*—Two lectures on "The Architecture of the St. Louis Exposition" by Prof. A. D. F. HAMLIN, A.M., of Columbia University.

A course of six lectures on "Architecture and Civilization" by Prof. A. D. F. HAMLIN, A.M., of Columbia University, on Monday evenings, as follows:

*Jan. 9*—"Architecture and General Culture."

*Jan. 16*—"Architecture and History."

*Jan. 23*—"Architecture and Religion."

*Jan. 30*—"Architecture and Science."

*Jan. 31*—Lecture on "The History of Theatre Architecture," by Prof. A. D. F. HAMLIN, A.M., of Columbia University.

*Feb. 6*—"Architecture and Decoration."

*Feb. 13*—"Originality and Tradition in Architecture."

*Mar. 16*—Lecture by Mr. CLARENCE H. BLACKALL, of Boston, on "Theatre Architecture."

*Mar. 28*—Lecture by FREDERICK LAW OLMS TED, Jr., of Harvard University, on "Landscape Architecture."

All the above lectures were illustrated by lantern photographs.

On March 28, a joint meeting of the Department of Architecture and the Municipal Club of Brooklyn was held at the Pierrepont Assembly Rooms. Dinner was served to about one hundred members and guests of the two organizations. After the dinner Mr. FRANK MILES DAY, of Philadelphia, presented a paper on "Making the City Beautiful," illustrating his paper by many lantern photographs of civic improvements already made or in progress. Mr. DAY's paper was discussed by Mr. J. MONROE HEWLETT, Hon. JAMES McKEEN, Mr. CHARLES M. SKINNER, Mr. FREDERICK LAW OLMS TED, Mr. ELECTUS C. LITCHFIELD, and Mr. WOODRUFF LEEMING.

The COMMITTEE ON MUSEUM AND LIBRARY has advisory power in the selection of Collections representing the History of Architecture for the Museum Building, and makes its recommendations to the Council and Board of Trustees.

THE COLLECTION OF PHOTOGRAPHS OF ARCHITECTURAL SUBJECTS, comprising upwards of four thousand pictures, has been mounted on cardboards, labeled and arranged in portfolio cabinets for reference by students in Architecture.

A selected number of ENLARGED BROMIDE PHOTOGRAPHS OF ANCIENT, MEDIEVAL AND RENAISSANCE ITALIAN ARCHITECTURE AND SCULPTURE made under the direction of Prof. WILLIAM H. GOODYEAR, M.A., in 1895 and 1901 in Italy, and of MEDIEVAL AND RENAISSANCE ARCHITECTURE in France in 1903, was exhibited on the walls of the corridors and stairway of the first Museum section during the year. Those Enlarged Bromide Photographs that represent French Architecture were exhibited in the Boston Public Library in May and June, 1904, previous to their exhibition in the Museum.

THE ART GALLERIES on the first or main floor of the first and second sections of the Museum Building are designed to contain collections illustrating the history of Greek and Roman Architecture and Sculpture. The work of making these collections is a most important one, and commands the interest and co-operation of every friend of Art Education and of every Member of the Institute who is a lover of Classic Art.

An excellent beginning was made during the season of 1897-8 in the Collections of Casts in Sculpture and Architecture, under the supervision of Mr. GEORGE C. BRACKETT, Member of the Department and of the Board of Trustees. The completion of the second section of the Museum Building has made room for additions to the collection.

Prof. WILLIAM H. GOODYEAR, A.M., Curator of Fine Arts, will spend the months of June to October, 1905, in continuing his study and surveys of cathedrals and other architectural monuments in France, making photographs of important structural and artistic features of the buildings studied.

## DEPARTMENT OF ASTRONOMY

GARRETT P. SERVISS, B.A.	<i>President</i>
Rev. FREDERICK CAMPBELL, D.Sc.	<i>Vice-President</i>
ALBERT J. BROOKS	<i>Secretary</i>
B. G. WAY	<i>Librarian</i>

*Executive Committee*

GARRETT P. SERVISS, B.A.	MISS MARY M. HOPKINS
HENRY M. PARKHURST	B. G. WAY
STANSBURY HAGAR, B.A.	MISS SADIE F. MOTTS
Rev. FREDERICK CAMPBELL, D.Sc.	ALBERT J. BROOKS
Prof. WILLIAM C. PECKHAM, M.A.	WALLACE GOOLD LEVISON, B.Sc.
C. F. HARMS	

The Department was organized on May 10, 1888, by the Members of the American Astronomical Society residing in New York, Brooklyn and the neighboring towns, and began its work as a Department with thirty-two members. The present membership is two hundred and fifty-four.

The proceedings at the meetings during the season have been as follows:

I. A Course of Four Sunday Evening Lectures (The Graham Foundation Lectures) on "Astronomy, with Special Reference to the Moon and the Planet Mars," illustrated by lantern photographs by Prof. WILLIAM H. PICKERING, S.B., of Harvard University, as follows:

*Jan. 8—"The Moon as a Whole."*

*Jan. 15—"The Lunar Surface."*

*Jan. 22—"Active Lunar Craters. Ice on the Moon."*

*Jan. 29—"Vegetation on the Moon. Mars."*

II. A Series of Conferences at the Observatory of the Department at Adelphi College, from 8 to 9.30 P. M., conducted by Members of the Department, as follows:

*Jan. 10—"General Observation."*

*Feb. 14—"The Moon."*

*Feb. 28*—"Jupiter and the Great Nebula in Orion."

*Mar. 14*—"The Moon at First Quarter."

*Mar. 28*—"Planet Venus as a Crescent, and the Pleiades."

*Apr. 25*—"Planet Mars and Double Stars."

*May 9*—"The Moon."

*May 23*—"Planet Mars and Star Cluster in Hercules."

III. Also the following evening lectures and conferences held in the Art Building:

*Feb. 1*—Conference on "The Planets and their Satellites, and the Laws Governing Them," led by Mr. ALBERT J. BROOKS, Secretary of the Department.

*Dec. 2*—Lecture by Mr. GARRETT P. SERVISS, President of the Department, on "The Sun, and the Theory that it is Losing Heat," illustrated by lantern photographs.

*Jan. 4*—Conference on "The More Important Astronomical Researches of 1904," led by Mr. GARRETT P. SERVISS.

*Mar. 2*—Conference on "The Geography of the Moon," led by Rev. FREDERICK CAMPBELL, Sc.D., Vice-President of the Department.

*Apr. 5*—Conference on "Our Present Knowledge of the Moon," led by Mr. GARRETT P. SERVISS.

*May 24*—Lecture by Mr. C. F. HARMS on "How Latitude and Longitude are Determined," illustrated with instruments.

IV. A Course of Six Lectures on "Astronomy," by S. ALFRED MITCHELL, Ph.D., of Columbia University, illustrated by lantern photographs, on Thursday evenings, as follows:

*Mar. 23*—"The Earth as Seen by the Astronomer—the Determination of its Exact Size and Shape."

*Mar. 30*—"Planets."

*Apr. 6*—"The Light of the Stars."

*Apr. 13*—"The Heat of the Stars—An Account of Some Recent Delicate Experiments."

*Apr. 20*—"Is the Sun Growing Cold? The Reason for the Cold Winter of 1903."

*Apr. 27*—"Problems to be Investigated at the Total Eclipse of the Sun Next Summer."

A MAGAZINE CLUB has been successfully conducted during the year under the guidance of Miss MARY A. HOPKINS, Chairman of the Library Committee of the Department. By this means a number of the members of the Department were provided with the leading Astronomical journals.

Mr. CHARLES LEMBKE, of New York, a Member of the Institute, presented to the Institute in the month of June, 1896, a telescope for the use of the Department of Astronomy. The telescope has an aperture of 8 inches, and a focal length of 110 inches. The object glass was made by Mr. JOHN BYRNE, and is of a very high quality. The tube of the telescope is of steel, and was turned out by Messrs. WARNER & SWAZY, of Cleveland, Ohio. The instrument is presented on condition that a suitable observatory room and a proper pillar and equatorial mounting shall be provided in connection with the Museum Building on Prospect Heights.

Through the bequest of the late WILLIAM F. SEBERT, for many years an officer and an active member of the Department, were received in June, 1904, two telescopes, well mounted on tripods, several telescopic attachments and a number of works on astronomy, all of which will be valuable to the Department. Among the more valuable of the more important works bequeathed by Mr. SEBERT were:

**BOUVIER, H. M.**

*Familiar Astronomy.*

**CHRISTIE, W. H. M.**

*Astronomy, 1882.*

**CLERKE, A. M., FOWLER, A., and GORE, G. E.**

*Astronomy, 1898.*

CLERKE, A. M.

Popular History of Astronomy during the 19th Century, 1893.

System of the Stars, 1890.

FERGUSON, JAMES.

Astronomy explained upon Sir Isaac Newton's principles. 2 v. and atlas, 1809-1821.

GILLET and ROLFE.

(The) Heavens Above, 1882.

GORE, J. E.

Visible Universe, 1893.

KLEIN, H. J.

Star Atlas.

LOCKYER, J. N.

Dawn of Astronomy.

Elements of Astronomy, 1880.

KEDZIE, J. H.

Solar Heat, Gravitation and Sun Spots, 1886.

SCHEINER.

Astronomical Spectroscopy, 1894.

SERVISS, G. P.

Astronomy with an opera glass, 1892.

WEBB, T. W.

Celestial Objects. N. D.

YOUNG, C. A.

Elements of Astronomy, 1890.

HARVARD COLLEGE OBSERVATORY.

V. 29, No. 3.

The Department has a very valuable library of works on Astronomy, numbering upwards of five hundred volumes.

At the June meeting of the Board of Trustees a communication was received from the Hon. ALFRED T. WHITE, a member of the Board, who was unable to be present at the meeting, in which he offered to present to the Institute

\$25,000 to be used in the equipment of an Astronomical Observatory to be erected on lands adjacent to the Museum Building and to be used primarily in giving instruction in Astronomy to students in the public and private schools of the city and to the general public. The sum of \$1,000 was paid by Mr. WHITE on account of this proposed gift to be used so far as necessary in obtaining preliminary plans for the Observatory.

A Special Committee on The Plan and Scope of the Astronomical Observatory was appointed by the authority of the Trustees, consisting of Messrs. GEORGE C. BRACKETT, GARRETT P. SERVISS, FRANKLIN W. HOOPER, FRANK SHERMAN BENSON, FREDERIC A. LUCAS, WILLIAM H. MAXWELL and B. G. WAY. This Committee has received recommendations as to the nature of the observatory required for teaching purposes from the Executive Committee of the Department of Astronomy, and has consulted with Prof. WILLIAM H. PICKERING, of the Harvard University Observatory with regard to a site for the observatory and its equipment. Professor Pickering has recommended that the observatory be located in Institute Park southwesterly of the Museum Building. Further information will be sought during the summer concerning observatories before preliminary plans will be made.

#### DEPARTMENT OF BOTANY

Prof. HENRY E. CHAPIN, Ph.D.	President
Miss IDA CLENDENIN	Vice-President
Miss MABEL A. YOUNG	Secretary

#### *Executive Committee*

Prof. HENRY E. CHAPIN, Ph.D.	Mrs. LOWELL M. PALMER
Miss IDA CLENDENIN	Miss ANNA B. GALLUP, B.S.
Miss MABEL A. YOUNG	Mrs. GEORGE W. CONKLIN
Miss GRACE E. BEARD	Miss E. A. AUSTIN
Miss EDITH B. BRAINERD	Mr. LOUIS HARMAN PEET
A. J. GROUT, Ph.D.	Mr. CHARLES WILLIS WARD
Mr. JOHN J. SCHOONHOVEN, M.A.	Rev. J. L. ZABRISKIE, D.D.

This Department was organized December 13, 1888, with twenty-one members. The present membership is three hundred and fifteen. The regular meetings of the Department are held on the third Wednesday evening of each month.

The work of the Department during the season comprised the following:

I. Lectures, all illustrated by lantern photographs:

*Dec. 21*—Lecture by CHARLES W. POLLARD, A.M., of Springfield, Mass., on “The Plant Life on the Florida Keys.”

*Jan. 18*—Lecture by Mr. J. HORACE MCFARLAND, of Harrisburg, Pa., on “Familiar Trees and their Unfamiliar Flowers.”

*Feb. 15*—Lecture by Prof. L. H. BAILEY, M.S., of Cornell University, on “The Evolution of Forms of Domestic Plants.”

*Mar. 13*—Lecture by Prof. HERBERT W. CONN, Ph.D., of Wesleyan University, on “Some Fresh Water Algae.”

II. Conferences, illustrated:

*Oct. 25*—“Plant Sections and What They Teach,” led by Mr. HENRY S. WOODMAN.

*Dec. 7*—“The Cactus Family as illustrated in the Conservatory of the New York Botanical Garden,” led by Prof. N. L. BRITTON, Ph.D., Director-in-Chief, New York Botanical Garden.

*Feb. 15*—“The Cultivation of Edible Mushrooms,” led by Mrs. GEORGE W. CONKLIN.

*Apr. 25*—“Moulds,” in charge of Messrs. GEORGE E. ASHBY, HENRY S. WOODMAN, and LAWRENCE L. DUERDEN.

*May. 9*—“Pond Life,” led by Messrs. JAMES WALKER and H. S. WOODMAN.

*May 23*—“Seeds and their Distribution,” illustrated by lantern photographs, led by Mrs. HELEN WARBURTON-JOY.

### III. Field Excursions:

*May 6*—To Hofmann Boulevard. Leader, Mr. GEORGE P. ENGELHARDT.

*May 20*—To Jamaica South. Leaders, Prof. H. E. CHAPIN, Prof. W. A. KAUFFMAN, and Mr. GEORGE P. ENGELHARDT.

*June 3*—To Cold Spring Harbor. Leaders, Prof. W. A. KAUFFMAN, Prof. H. E. CHAPIN and Miss MABEL A. YOUNG.

IV. A COURSE OF INSTRUCTION IN "CRYPTOGAMIC BOTANY," under ABEL J. GROUT, Ph.D., of the Boys' High School, with practical laboratory work, was given on successive Thursday afternoons, from 3.30 until 5.30 o'clock, beginning on October 13th (omitting November 24th) and ending on December 22d. This course was free to Members of the Institute and to others who registered and attended regularly.

V. THE BOTANICAL COLLECTIONS comprise upwards of 46,000 well mounted and well labeled specimens. It includes the large collection presented by Mr. WILLIAM CALVERLEY; the collection made by the late Rev. CHARLES H. HALL, D.D., LL.D., first President of the Department, and presented by Mrs. HALL to the Institute; the collection made by the late Rev. GEORGE D. HULST, Ph.D., and presented by Mrs. HULST to the Institute; the collection of MOSESSES presented by Mrs. ANNIE MORRILL SMITH; with several smaller collections. The HERBARIUM has been transferred to cases in the Museum Building and arranged in systematic order.

To the Museum Collections in Botany have been added by purchase thirty-two enlarged models in papier-maché, showing the structural and morphological characteristics of plants, and made by M. Auzoux, M.D., of Paris, and to the Children's Museum forty-six similar models, made by

**M. DEVROLLE**, of Paris. These models are dissectible and are most useful for exhibition purposes and in illustrating lectures on Botany.

**VI. HALF HOUR TALKS ON BOTANY FOR YOUNG PEOPLE** under **Miss ANNA B. GALLUP**, B.S., Curator Children's Museum, were given during the year at the Children's Museum Building, Bedford Park, Brooklyn avenue. These instructive talks to the children are illustrated by the collections of plants, models and apparatus from the Children's Museum Collections.

#### BOTANIC GARDEN.

At the June meeting of the Board of Trustees a communication was received from the Hon. **ALFRED T. WHITE**, stating that several friends of the Institute had authorized him to offer to the Institute the sum of \$25,000, to be used in equipping a scientific Botanic Garden, whose primary purpose should be the teaching of Botany to students in the public and private schools of the city, and to the general public, provided such a garden be established on the grounds adjacent to the Museum. The communication was accompanied by a check for \$1,000, that may be used as far as necessary in obtaining information and preliminary plans for the establishment of the proposed garden.

By the authority of the Board of Trustees a special Committee on Plan and Scope of a Botanic Garden was appointed, as follows: **CHARLES A. SCHIEREN**, **LOWELL M. PALMER**, **ALFRED T. WHITE**, **FRANKLIN W. HOOPER**, **HENRY E. CHAPIN**, **FREDERIC A. LUCAS**, **GEORGE C. BRACKETT**, **WILLIAM H. MAXWELL** and **NATHANIEL L. BRITTON**. This Committee held a meeting on June 27th. Arrangements were made for the gathering of information with regard to existing botanic gardens during the summer, to be laid before the Committee during the autumn.

A list of the donations and accessions in the Department of Botany to the Museum Collections will be found under the account of the Museum.

### DEPARTMENT OF CHEMISTRY.

Prof. IRVING W. FAY, Ph.D.	<i>President</i>
Prof. WM. J. HANCOCK, B.Sc.	<i>Vice-President</i>
JAMES H. PARK	<i>Secretary</i>

#### *Executive Committee*

Prof. IRVING W. FAY, Ph.D.	Prof. WILLIAM W. SHARE, Ph.D.
E. H. BARTLEY, M.D.	HERBERT B. BALDWIN
ROBERT G. ECCLES, M.D.	Prof. HENRY W. SCHIMPF, Ph.D.
WALTER H. KENT, Ph.D.	JAMES H. PARK
Prof. ALBERT C. HALE, Ph.D.	HARRY T. WEED, B.Sc.
J. C. OLSEN, Ph.D.	Prof. WILLIAM J. HANCOCK, B.Sc.
Prof. ARTHUR W. AREY	Prof. CHARLES M. ALLEN
ALBERT H. STOCKER	Prof. B. M. JAQUISH

The Department of Chemistry was organized in November, 1888, with twenty-seven members. The present membership is one hundred and ninety-seven.

During the past year the Department, in conjunction with the Department of Physics, provided the following courses of lectures:

I. A Course of Six Lectures on "Organic Chemistry," by Prof. IRVING W. FAY, Ph.D., of the Polytechnic Institute, illustrated by experimental demonstrations, on Monday evenings, as follows:

*Feb. 20*—"The Field of Organic Chemistry. How Organic Chemistry differs from Inorganic."

*Feb. 27*—"Hydrocarbons. Illuminating Gases. Natural Gas. Mineral Oils. Chloroform. Iodoform."

*Mar. 6*—"Entrance of Oxygen into Organic Compounds. Common Alcohol. Wood Alcohol. Formaldehyde as a Germ Destroyer."

*Mar. 13*.—"Oils and Fats. Soap. Glycerine. Candles, Stearic Acid. Olive Oil. Cotton Seed Oils."

*Mar. 20*.—"The Sugars, Starches, Cellulose: Sugar of the Cane, the Beet and the Maple Tree. Barley Sugar, Artificial Sugar from Corn. Sugar from Paper."

*Mar. 27*.—"Fourth Element of Organic Chemistry: Nitrogen. How Nitrogen enters the Realm of Organic Chemistry."

II. A Course of Six Lectures on "Food Preservations," by Prof. JOHN C. OLSEN, Ph.D., of the Polytechnic Institute, illustrated by experimental demonstrations, on Monday evenings, as follows:

*Apr. 3*.—"Food Adulterants and Preservatives and their Detection; Pure Food Laws and their Enforcement; Methods of Analysis."

*Apr. 10*.—"Analysis of Milk; Methods of Transportation and Preservation of Milk; Analysis of Meats."

*Apr. 17*.—"Analysis of Butter, Oleomargarine and Oils; Household Tests for Pure and Renovated Butter, and for Oleomargarine."

*Apr. 24*.—"Analysis of Saccharine Products, including Sugar, Candy, Molasses, Syrups, etc.; Use of Polariscopic and Saccharimeter."

*May 1*.—"Analysis of Canned Foods; Examination for Coloring Matter, Preservatives and Metallic Impurities."

*May 8*.—"Analysis of Baking Powders, Cereals, Flour, Bread, Cake, etc."

III. SINGLE LECTURES ON CHEMISTRY, under the joint auspices of this Department and that of Domestic Science.

*Dec. 15*.—"Pure Food Supply of Great Cities," by the Hon. THOMAS DARLINGTON, M.D., Health Commissioner of New York.

*Feb. 16*—"Baking Powders," by WILLIAM McMURTRIE, Ph.D., of New York.

*Apr. 19*—"Diet for Children," by Prof. E. H. BARTLEY, M.D., of the Long Island College Hospital.

*May 15*—"Flavoring Extracts and Perfumes," by ROBERT W. CORNELISON, Ph.D., of Bloomfield, N.J.

IV. THE COLLECTION OF CHEMICALS AND CHEMICAL APPARATUS belonging to the Department is in part at the Museum Building and in part at the Bedford Park Building. Additions to the Chemical Collection were made.

The Library of the Department contains upwards of five hundred volumes, mostly of standard works of reference, recently acquired.

#### DEPARTMENT OF DOMESTIC SCIENCE.

Mrs. JOHN J. SCHOONHOVEN, M.L.	<i>President</i>
Miss EMMA O. CONRO	<i>Vice-Presidents</i>
Miss FRANCES SCHROEDER }	
Mrs. FRANKLIN W. HOOPER	<i>Secretary</i>

#### *Executive Committee*

Mrs. JOHN J. SCHOONHOVEN	Mrs. JOHN KENDALL DUNN
Mrs. ANDREW JACOBS	Mrs. A. E. PALMER
Mrs. FRANKLIN W. HOOPER	Mrs. C. C. KNOWLTON
Miss ELIZABETH REEVE	Miss EMMA O. CONRO
Miss FANNIE PERKINS	Miss FRANCES SCHROEDER
Miss MINNIE HUTCHINSON	Dr. ELIZA MOSHER
Miss MARGARET DREIER	

This Department was organized on November 13, 1893, with a membership of forty-two. The present membership is two hundred and two. The purpose of the Department is the study of practical problems in Domestic Science. Standing Committees have been appointed on the following subjects:

- 1 The Sanitary and Economic Construction of Dwellings
- 2 The General Principles of House Furnishing

- 3 The Composition and Value of Foods
- 4 Cooking and Transformation of Foods
- 5 Labor Saving Methods and Utensils
- 6 Sanitation and Economy in Clothing
- 7 Domestic Service.

The work of the Department during the past year was as follows:

I. A Course of Six Lectures on "Foods and their Preparation," illustrated by practical demonstrations, by Miss HELEN M. DAY, of Teachers College, Columbia University, on Friday afternoons, as follows:

*Mar. 31*—"Foods for Breakfast."  
*Apr. 7*—"Salads and Sandwiches."  
*Apr. 14*—"Summer Desserts and Beverages."  
*Apr. 28*—"The Chafing-Dish in the Summer Home."  
*May 5*—"Foods for Invalids."  
*May 12*—"Preserving Fruit."

II. Domestic Art. A course of three lectures on "Industrial History," by Miss ROMIETT STEVENS, of Pratt Institute, on Wednesday afternoons, as follows:

*Feb. 1*—"The Domestication of Animals, and Early Industries."  
*Feb. 8*—"The Place of Weaving, Basketry and Pottery in the History of the Human Family," illustrated by exhibits of Weaving, Basketry and Pottery.  
*Feb. 15*—"Dress and the Dwelling House," illustrated by lantern photographs.

III. Single Lectures, at 4 P.M.

*Nov. 17*—"The Best Employment Agency, by Miss FRANCES KELLOR, of New York.

*Dec. 15*—"Pure Food Supply of Great Cities," by Hon.

THOMAS DARLINGTON, M.D., Health Commissioner of New York City.

*Jan. 19*—"The Rights of Householders," by the Hon. FREDERICK E. CRANE, Judge, Kings County Court.

*Feb. 16*—"Baking Powders," illustrated by WILLIAM McMURTRIE, Ph.D., of New York City.

*Mar. 17*—"The Effect of Light on Color," illustrated by colored electric lights, by Miss LUILLA M. STEWART, of Syracuse.

*Apr. 19*—"Diet for Children," illustrated by experimental demonstrations, by Prof. E. H. BARTLEY, M.D., of the Long Island College.

*May 15*—"Flavoring Extracts and Perfumes," illustrated, by ROBERT W. CORNELISON, Ph.D., of Bloomfield, N. J.

#### IV. Conferences, at 4 P.M.

*Dec. 1*—"The Spirit of the Home: Elements in Modern City Life Tending to Foster or Destroy It," led by Mrs. JOHN J. SCHOONHOVEN, M.L., President of the Department.

*Jan. 26*—"The Domestic Problem in its Economic Aspect," led by Miss MARGARET DREIER, President of the New York Association for Household Research.

*Mar. 22*—"Sewing in the Home," led by Miss ELIZABETH REEVE, of Brooklyn.

*Apr. 5*—"Wasteful Habits of Children," led by Mrs. JULIA E. BATES, President of the Kosmos Club.

See also Department of Psychology for Conferences conducted by Mrs. FRANKLIN W. HOOPER on subjects relating to Domestic Science.

#### V. Visits of the Department:

*Jan. 7*—Reception to Members at the PIERREPONT ART ROOMS (Mills-Platt Co.), 44 Clinton street, Brooklyn.

*Mar. 15*—Visit to Domestic Art and Domestic Science Departments of PRATT INSTITUTE.

## SPECIAL COURSES OF INSTRUCTION IN DOMESTIC ART

I. *Artistic Weaving*. Fifteen lessons, 2 hours each, Thursday afternoons, beginning January 12; Miss EVALYN M. GRISWOLD, instructor.

II. *Basketry*. Fifteen lessons, 2 hours each, Saturday mornings, beginning January 14; Miss EVALYN M. GRISWOLD, instructor.

III. *Pottery*. Fifteen lessons, 2 hours each, Tuesday afternoons, beginning January 10; Miss ISABEL MOORE KIMBALL, instructor.

These courses are more fully described under the School of Pedagogy.

VI. MUSEUM OF DOMESTIC SCIENCE AND ART. A beginning has been made of collections illustrating the Art and the Science of the Household. Contributions to the collections will be accepted for the Museum on the recommendation of this Department.

## DEPARTMENT OF ELECTRICITY

WILLIAM D. SARGENT

*President*

J. P. WINTRINGHAM

*Vice-Presidents*

HUBERT S. WYNKOOP, M.E. }

*Secretary*

FREDERICK V. HENSHAW

*Executive Committee*

WILLIAM D. SARGENT

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J. P. WINTRINGHAM

J. C. REILLY

E. H. BARTLEY, M.D.

WILLIAM B. HALSEY

FREDERICK V. HENSHAW

Prof. WM. W. SHARE, Ph.D.

WILLIAM C. BURLING

HENRY T. WEED, B.Sc.

FRANK W. CONN

HORACE A. DWYER

Prof. JOHN S. MCKAY, Ph.D.

CHARLES E. F. LEWIS

Prof. WM. C. PECKHAM, M.A.

GEORGE G. HOPKINS, M.D.

GEORGE W. HEBARD

NATHANIEL ROBINSON, M.D.

HUBERT S. WYNKOOP, M.E.

L. A. W. ALLEMAN, M.D.

C. K. BELDEN, M.D.

PETER SCOTT, M.D.

This Department was organized on March 21, 1890, with one hundred and thirty members. The present membership is two hundred and twenty-six. The lectures during the season have been as follows:

I. A Course of Six Lectures on "Modern Views of Electricity," illustrated by experimental demonstrations, by Prof. E. R. von NARDROFF, Ph.D., of Erasmus Hall High School, on Monday evenings, as follows:

*Oct. 3—"The Electrical Structure of Chemical Atoms."*

*Oct. 10—"Thermo-electricity and the Electro-thermal Waves of Rubens."*

*Oct. 17—"The Phenomena of Paramagnetism and Diamagnetism."*

*Oct. 24—"The Magnetic Properties of Electric Currents."*

*Oct. 31—"Electric Oscillations and Electro-magnetic Induction."*

*Nov. 7—"The Properties of Electrostatic Lines of Force."*

II. A Course of Ten Lectures on "Matter, Electricity and Radiation in the Light of Recent Discoveries," illustrated by lantern photographs and experimental demonstrations, by Prof. JOHN S. MCKAY, Ph.D., President of the Department of Physics, on Saturday afternoons beginning March 4. This course was given in connection with the Department of Physics, under which the lectures are fully described.

III. Two evening lectures by Mr. C. J. H. WOODBURY, A.M., Assistant Engineer of the American Telegraph and Telephone Co., illustrated by lantern photographs:

*Dec. 6—"Fire Hazards from Electric Currents."*

*Apr. 28—"The Telephone System of To-day."*

THE COLLECTION OF ELECTRICAL APPARATUS belonging

to the Department has been transferred to the new Museum Building. The Library of the Department has been placed with the Collection for reference.

## DEPARTMENT OF ENGINEERING

O. F. NICHOLS, C.E.	President
NELSON P. LEWIS, C.E.	Vice-President
LOUIS DUVINAGE, C.E.	Secretary

### *Executive Committee*

O. F. NICHOLS, C.E.	Prof. GEORGE W. PLYMPTON, C.E.
HENRY W. BRINCKERHOFF, C.E.	ARTHUR S. TUTTLE, C.E.
Prof. ISAAC E. HASBROUCK, C.E.	WILLIAM J. BALDWIN
NELSON P. LEWIS, C.E.	LOUIS DUVINAGE, C.E.
Prof. MAGNUS C. IHLENG, C.E., Ph.D.	G. W. TILLSON FRANK W. CONN

### *Committee on Lectures*

O. F. NICHOLS, C.E.	Prof. GEORGE W. PLYMPTON, C.E.
HOMER L. BARTLETT, C.E.	BERNT BERGER
	HERMAN STUTZER, JR.

### *Committee on Practical Work*

NELSON P. LEWIS, C.E.	G. W. TILLSON
FRANK W. CONN	HENRY W. BRINCKERHOFF, C.E.
	WILLIAM J. BALDWIN, C.E.

The organization of the Department of Engineering was effected on March 12, 1889, with thirty-six members. The present membership is one hundred and forty-six. The lectures during the past season were as follows:

*Oct. 28*—"Bridges Over the Harlem River," by Mr. MARTIN GAY, C.E., Engineer in Charge of Bridges over the Harlem River and in Manhattan.

*Nov. 25*—"Mechanical Engineering of High Buildings," by Mr. REGINALD P. BOLTON, M.E., of New York City.

*Dec. 23*—"Cable Suspension Bridges," by Mr. WILLIAM HILDENBRAND, C.E., of New York City.

*Dec. 28*—"The Panama Canal," by Prof. WILLIAM H. BURR, C.E., of Columbia University.

*Jan. 27*—“New York: The City Beautiful?” by Mr. NELSON P. LEWIS, C.E., Engineer for the Board of Estimate and Apportionment of New York City.

*Feb. 24*—“Pavements in City Streets,” by Mr. G. W. TILLSON, C.E., Chief Engineer of the Bureau of Highways, Borough of Brooklyn.

*Mar. 24*—“The Manhattan Bridge and its Approaches,” by Mr. O. F. NICHOLS, C.E., President of the Department.

*Apr. 4*—“The Geology and Manufacture of Portland Cement in Lehigh and Northampton Counties, Penna., by Prof. FREDERICK B. PECK, Ph.D., of Lafayette College.

Each lecture was illustrated by lantern photographs.

Mrs. CHARLES E. EMERY has presented to the Department the entire library of her husband, the late CHARLES E. EMERY, Ph.D., for seven years President of the Department. The library consists of five hundred and five bound volumes, about two thousand pamphlets, and many numbers of unbound periodicals.

The Library of the Department is permanently installed in the Central Museum Building.

## DEPARTMENT OF ENTOMOLOGY

EDWARD L. GRAEF	<i>President and Curator</i>
RICHARD F. PEARSALL	<i>Vice-President</i>
ARCHIBALD C. WEEKS	<i>Secretary</i>
JACOB DOLL	<i>First Assistant Curator</i>
CARL SCHAEFFER	<i>Second Assistant Curator</i>
Prin. FRANK A. WILLARD	<i>Librarian</i>

### *Executive Committee*

EDWARD L. GRAEF	RICHARD F. PEARSALL
Prin. LYMAN A. BEST, B.A.	GEORGE FRANCK
ARCHIBALD C. WEEKS	Prin. FRANK A. WILLARD
GEORGE LAGAI, Ph.D.	I. N. HOAGLAND
JACOB DOLL	CARL SCHAEFFER
GEORGE P. ENGELHARDT	

*Committee on Lectures, Study and Field Days*

Prof. FRANKLIN W. HOOPER	Dr. J. L. ZABRISKIE
Prin. LYMAN A. BEST, B.A.	Prof. JOHN B. SMITH
Miss LUCILLA E. SMITH	

*Committee on Collections*

EDWARD L. GRAEF	Prin. JOHN MICKLEBOROUGH, Ph.D.
ARCHIBALD C. WEEKS	JACOB DOLL
CARL SCHAEFFER	

This Department was organized by the Brooklyn Entomological Society in September, 1888, with thirty-five members, and was reorganized April 29, 1895, with a membership of fifty-two. The present membership is fifty-two.

The meetings during the past season have been as follows:

I. *Jan. 12*—Lecture on “The Mexican Cotton Boll Weevil,” illustrated by lantern photographs, by Prof. LELAND O. HOWARD, Ph.D., Chief of the Division of Entomology, U. S. Department of Agriculture, Washington.

*Mar. 17*—Lecture on “Insects in Relation to Disease,” illustrated by lantern photographs, by HENRY SKINNER, M.D., of the Philadelphia Academy of Sciences.

II. *Jan. 28*—Joint Conference with the Brooklyn and New York Entomological Societies. Subject: “Critical Review of the Lepidopterous Genus *Argynnis*,” illustrated by specimens; leader, Mr. GEORGE FRANCK.

III. Joint Meeting with the NATIONAL SOCIETY FOR THE EXTERMINATION OF THE MOSQUITO:

*Dec. 15*—Lecture on “Diversities Among New York Mosquitoes,” illustrated by lantern photographs, by Dr. E. P. FELT, New York State Entomologist.

*Dec. 16*—Lecture on “Methods of Examination and Dissection of Mosquitoes for Parasites,” illustrated by lantern photographs, by Dr. M. J. RONSENEAU, Director Hygienic Laboratory, Washington, D. C.

IV. *Dec. 8*—Conference on “Some of the Insects Collected in New Mexico and Arizona in the Summer of 1904,” led by Mr. JACOB DOLL, Curator of Entomology, Central Museum.

*Dec. 22*—Conference on “Some of the Insects Collected in Southern Texas in the Summer of 1904,” led by Mr. CARL SCHAEFFER, Assistant Curator of Entomology, Central Museum.

The Entomological Collections have received very large additions during the past few years. In 1890 the late WILLIAM CALVERLEY presented to the Institute the entire collection of Lepidoptera, Coleoptera, Hymenoptera, and Neuroptera made by his father, STEPHEN CALVERLEY, during the years 1832-1872. The collection comprises many rare forms, is in a good state of preservation, and is carefully labeled. Catalogues accompanying the collection give the location, time of collection, and the habitat of most of the insects. The number of insects labeled in the collection is estimated to be twenty thousand.

In the autumn of 1898 Mr. FRANK S. JONES, a Member of the Board of Trustees, and a Member of the Committee on Museum of Science, of the Institute, presented Ten Thousand dollars (\$10,000) to the corporation to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA. The purchase of the Neumoegen Collection was effected in December, and thus, through the generosity of Mr. JONES, the Institute became the possessor of one of the largest and most valuable collections of Lepidoptera in the world—a collection which contains more type specimens of Lepidoptera than any other in the United States. The collection is beautifully mounted, labeled, classified and arranged in cabinet drawers, and contains, approximately, forty-five thousand specimens, eleven thousand species, and eleven hundred type specimens.

The NEUMOEGEN COLLECTION was made by Mr. BER-

THOLD NEUMOEGEN during a period of twenty years, with the assistance of Mr. JACOB DOLL, who acted as Curator of the collection during the period of its formation, 1875 to 1895.

Mr. EDWARD L. GRAEF, a Life Member of the Institute, President of the Department of Entomology, and now Curator of the Entomological Collections of the Institute, offered in 1897 to present his entire collection of Lepidoptera to the Institute on condition that the BERTHOLD NEUMOEGEN COLLECTION should be purchased by the Institute for its Museum. As soon as the Trustees had acquired the title to the NEUMOEGEN COLLECTION, Mr. GRAEF presented his collection, comprising approximately, fifteen thousand specimens of Lepidoptera, including about one hundred type forms and many rare specimens.

The late Rev. GEORGE D. HULST, Ph.D., presented his collections, of unusual value, of Geometridæ and Microlepidoptera, to the Museum in 1900.

Mr. P. ELBERT NOSTRAND, a Life Member of the Institute, presented to the Institute in the Autumn of 1898 his collection of Lepidoptera, numbering some three thousand specimens, together with a cabinet containing the same.

CHARLES S. MCKNIGHT, M.D., of Saratoga, presented in October, 1901, his entire collection numbering some four thousand specimens of Lepidoptera, together with cases containing the same.

Mr. JACOB DOLL, Assistant Curator of the Entomological Collections of the Institute, has very generously loaned for exhibition at the Museum Building his own private collection of Lepidoptera, comprising some thirty thousand specimens and many rare species. It is desirable that this collection should, if possible, be purchased by the Institute, in order that the Collections in Lepidoptera may be as complete as they can be made from collections in this country,

and also to enable the Institute, by exchanging with foreign collectors, to enlarge the number of its species and varieties.

Large additions to the collections have been made through the following expeditions:

(1) Expedition to Brownsville in Southern Texas from April 15 until September 5, 1903, by Messrs. JACOB DOLL and CARL SCHAEFFER.

(2) Expedition to Brownsville and other points in Texas from June to September, 1904, by Mr. CARL SCHAEFFER.

(3) Expedition to New Mexico and Arizona from May until September, 1904, by Mr. JACOB DOLL and Mr. GEORGE P. ENGELHARDT.

During the Summer of 1905 Mr. SCHAEFFER will make an expedition to Arizona.

These expeditions add not only many forms to the Museum Collections, but also are the means of discovering new species and varieties.

The Library on Entomology comprises most of the standard works on the subject, together with nearly complete series of the publications of Entomological Societies.

The use of the Entomological Collections and Library is subject to the rules and regulations adopted by the Trustees and Council of the Institute on the recommendation of the Department of Entomology. Portions of the Collections are kept on public exhibition at the Museum Building. For access to collections not on exhibition, application should be made to Mr. JACOB DOLL, Curator, at the Museum.

#### DONATIONS 1904-5

For a list of the donations and accessions to the Museum Collections see under Museum, Table of Contents.

#### DEPARTMENT OF ETHNOLOGY

Mr. STEWART CULIN  
Hon. FRANK SQUIER  
Dr. JOSEPH H. HUNT

*Curator*  
*Vice-President*  
*Secretary*

*Executive Committee*

STEWART CULIN

Hon. FRANK SQUIER

Dr. JOSEPH H. HUNT

STANSBURY HAGAR

A. F. BANDELIER

MARSHALL I. SAVILLE

HARLAN I. SMITH

ALBERT A. HOPKINS

This Department was organized in November, 1903. The work of the Department during the season included the following:

I. A Course of Five Lectures on "The Ethnology of the Southwest," by Mr. GEORGE H. PEPPER, of the Department of Ethnology, American Museum of Natural History, on Monday evenings, as follows:

*Apr. 3*—"The Cliff Dwellers and Basket Makers of the Southwest: their Physical and Ethnic Differences."

*Apr. 10*—"The Pueblo People of To-day: their Arts and Ceremonies, especially the Hopi Snake Dance."

*Apr. 17*—"The Home Life and Arts of a Self-sustaining People: the Navajos."

*Apr. 24*—"Indian Potters of New Mexico and Arizona: How they Make and Use their Fictile Productions."

*May 1*—"Textile Makers of the Great Southwest: A History of Weaving from Pre-historic to Modern Times."

## II. Single Lectures:

*Nov. 18*—"Picture Writing and Hieroglyphs," by Mr. CHARLES PICKERING BOWDITCH, A.M., of the Peabody Museum of Archaeology, Cambridge, Mass.

*Jan. 6*—"Decorative Art as Represented on Indian Basketry," by GEORGE A. DORSEY, Ph.D., Curator of Anthropology, Field Columbian Museum.

*Jan. 20*—"The Ancient Civilizations in Michigan," by Mr. HARLAN I. SMITH, Assistant Curator of Ethnology of the American Museum of Natural History.

All of the above lectures were illustrated by lantern photographs.

Previous to 1903 the Museum Collections in Ethnology included the WILLIAM WALLACE TOOKER Collection of Indian Relics of Long Island; the GEORGE F. KUNZ Collection of Relics from the Mississippi Valley; the WARD Collection of Models of Pueblos and Cliff Dwellings; the FREDERICK W. STARR Collection of Models of Portrait Busts of Pueblo Indians and of Pueblo Sculptures; the CHARLES A. SCHIEREN Collection of Pottery from the Cliff Dwellings and from Peru; the FRANKLIN W. HOOPER Collection of Swiss Lake Dwelling Relics; the CLARENCE W. RIGGS Collection of Pueblo Pottery, and the Collection of electrotype reproductions of the British Museum Collection of Greek Coins. The Department also has on exhibition the following loan collections: (1) The FRANK SHERMAN BENSON Collection of Greek Coins; (2) The RUSSELL STURGIS, 2d, Ethnological Collection from the Pacific Islands, and (3) the STANSBURY HAGAR Collection of Indian Relics.

The collections in Ethnology were very greatly enriched during the year 1903 under the Curator of Ethnology, Mr. STEWART CULIN. The additions comprised (1) a collection of carved wooden images, clubs, weapons and implements presented by Mr. A. AUGUSTUS HEALY, Col. ROBERT B. WOODWARD and Hon. CARL H. DE SILVER, and costing \$360.00; (2) the large collection of Cliff Dweller Relics from Cañon du Chailly, purchased from Mr. CHARLES DAY at \$4,000, and presented by Messrs. A. AUGUSTUS HEALY and GEORGE FOSTER PEABODY; (3) a large collection illustrating the Ethnology of the Zunis, made in the Southwest by Mr. CULIN, at an expense of approximately \$1,700, contributed by seventeen trustees of the Institute; (4) a collection also illustrating the Ethnology of the Zuni Indians purchased from Mr. VANDERWAGEN for \$1,000, contributed by trustees and friends of the Institute; (5) a collection of

East Indian coins presented by Mr. ROBERT C. W. BROCK, of Philadelphia, together with other smaller collections.

During the Summer of 1904 Mr. STEWART CULIN made his second expedition for the Institute to the Southwest to collect ethnological material and expended in the purchase of collections, besides expenses, some \$1,553.85 from the Museum Collection Fund of 1904. Mr. HERBERT B. JUDY, Museum artist, accompanied Mr. CULIN and made studies and sketches to be used in illustrating the Ethnology of the Southwest in connection with the ethnological material exhibited in the Museum.

In the large gallery in the basement of the first section of the Museum the Ethnological Collections of the Institute from the Eastern continent were installed during the autumn and the gallery was opened to the public in December, 1904. The Ethnological Collections from the Southwest brought together during 1903 and 1904 by Mr. CULIN were installed by him in the large gallery on the first floor of the first section of the Museum during the year, and the gallery was opened to the public as "The Hall of American Ethnology" on June 1, 1905. Other collections in this Department were placed temporarily on exhibition in the new section of the Museum, second floor.

Mr. CULIN will spend the months of June to October, 1905, in collecting in Arizona and California, and will be accompanied in Arizona by Mr. JUDY.

#### DONATIONS 1904-5

From the MUSEUM COLLECTION FUND of 1904 the sum of \$1,553.85 used by Mr. CULIN in the purchase of Ethnological material for the Museum.

From Dr. ALLCHIN (through Mr. GEORGE C. BRACKETT) seven "Plateau Flints."

For a list of loans to this Department see under Museum, Table of Contents.

## DEPARTMENT OF FINE ARTS

Prof. WILLIAM H. GOODYEAR, M.A.	<i>President</i>
Rev. ALFRED DUANE PELL	<i>Vice-President</i>
ALBERT A. HOPKINS	<i>Secretary</i>

*Executive Committee*

Prof. WILLIAM H. GOODYEAR, M.A.	Col. HENRY T. CHAPMAN
Rev. ALFRED DUANE PELL	CLAYTON L. MOAK
ALBERT A. HOPKINS	Rev. WILLIAM H. INGERSOLL
Miss LOUISE BOTH-HENDRIKSEN	

The establishment of this Department was authorized by the Council and the Board of Trustees on February 11, 1888. The membership in June, 1889, was one hundred and thirty-two. The present membership is nine hundred and forty-two.

This Department was regularly organized on Monday, March 16, 1903.

The work of the Department included lectures illustrated by lantern photographs as follows:

(A) Lectures given in conjunction with the Section on Art Education of the Department of Pedagogy:

I. A Course of Three Lectures by Miss ANNA CAULFIELD, of the Chicago Art Institute, on Friday afternoons, as follows:

*Feb. 24*—"Paris, Literary and Artistic."

*Mar. 3*—"American Art and Art in America."

*Mar. 10*—"Mural Art in America."

II. A Course of Six Lectures on "Persia and Central Asia, their Literature and Civilization," by Prof. A. V. W. JACKSON, Ph.D., L.H.D., of Columbia University, on successive Monday afternoons, beginning October 3. This course was given in co-operation with the Department of Philology, under which the lectures are fully described.

III. A Course of Three Lectures on "The Life of Christ in Art," by Mme. MARIE L. RANKÉ, of New York, as follows:

*Apr. 8—"The Christ-Child."*

*Apr. 15—"The Ministry."*

*Apr. 20—"The Resurrection," illustrated by motion pictures of the Oberammergau Passion Play.*

IV. *Nov. 29—Lecture on "Art in Persia," illustrated by lantern photographs, by Prof. A. V. W. JACKSON, Ph.D., L.H.D., LL.D., of Columbia University.*

V. *Dec. 6—"Lecture "With the Clay Worker and His Products," by Miss MARIA AUGUSTA WILDE, of Franklin, N. Y., illustrated by examples of Pottery.*

(B) Lectures given in conjunction with the Departments of Geography, Pedagogy, Painting, Archæology or Architecture.

I. A Course of Six Lectures on "Greek Art and Archæology," by Prof RUFUS B. RICHARDSON, A.M., (ten years Director of the Classical School in Athens) on successive Thursday evenings beginning September 29. This Course was given in conjunction with the Classical Section of the Department of Philology, under which the lectures are fully described.

II. A Course of Six Lectures on "Artistic Handicrafts," by J. FREDERICK HOPKINS, A.M., Director of Art Instruction, Department of Education, Boston, on Monday evenings, as follows:

*Oct. 3—"The Field of Decorative Design."*

*Oct. 10—"Artistic Weaving."*

*Oct. 17—"Artistic Pottery."*

*Oct. 24—"In Fields of Glass."*

*Oct. 31—"Decorative Metal Work and Leather Work."*

*Nov. 7—"Artistic Handicrafts in the School Room."*

III. A Course of Six Lectures on "Old Flemish and Dutch Art," by Fräulein ANTONIE STOLLE, of Boston, on Wednesday afternoons, as follows:

*Nov. 16*—"Fifteenth and Sixteenth Century Flemish Art in its Prime and Decline."

*Nov. 23*—"The Flemish Revival; Rubens, the Poet in Color."

*Nov. 30*—"Van Dyck, the Portrait Painter of Aristocracy; Jordaens, the Imitator of Rubens; Cornelius de Vos; Teniers, and others."

*Dec. 7*—"Dutch Art; Dutch Realism."

*Dec. 14*—"Rembrandt, King of Etchers, King of Shadows."

*Dec. 21*—"The Genre Painting, portraying Dutch Home-life."

IV. A Course of Five Lectures on "Egyptian Art and Archæology," by Prof. WILLIAM H. GOODYEAR, A.M., Curator of Fine Arts, Central Museum, on Friday afternoons, as follows:

*Dec. 9*—"The Tourists' First Impressions."

*Dec. 16*—"The Pyramids of the Old Empire."

*Dec. 23*—"The Museum at Cairo."

*Dec. 30*—"The Temples of the New Empire."

*Jan. 6*—"Egyptian Civilization and Mythology."

V. A Course of Six Lectures on "American Art," by Mr. ALEXANDER T. VAN LAER, A.N.A., of New York, on Wednesday evenings, as follows:

*Apr. 5*—"Earlier American Painters."

*Apr. 12*—"Younger American Painters."

*Apr. 19*—"Mural Painting in America."

*Apr. 26*—"American Illustrators."

*May 3*—"American Sculptors."

*May 10*—"Recent American Sculpture."

*Mar. 16*—Lecture by Mr. CLARENCE H. BLACKALL, A.M., of Boston, on “Theatre Architecture.”

### THE EVENING ART SCHOOL

For the benefit of those Art Students who desire to pursue Courses of Art Instruction in evening classes, the EVENING ART SCHOOL has been established in conjunction with the Brooklyn Art Association, and the following courses have been conducted during the past thirteen years:

I. Course in Free Hand Drawing from Models and from the Antique, for beginners.

II. Men's Life Class, with Drawing and Painting from Life.

The instruction in these classes was given by Mr. JOSEPH H. BOSTON, in the Art Building, 174 Montague street. The tuition for Course I was free to students who showed ability and made good progress, and for Course II, \$12 per quarter. The school opened on the first Monday in October, and closed on the last Friday in May.

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The Exhibition of Tissot Paintings Illustrating the Old Testament is noted on page 142.

### THE ART COLLECTIONS

The Art Collections in the Museum comprise the following:

(1) The Collection of Oil Paintings exhibited in the main gallery on the third floor, in the two smaller galleries on the same floor, and in the square gallery on the main floor.

(2) A Loan Collection of Oil Paintings exhibited in the same galleries.

(3) The TISSOT COLLECTION of pictures illustrating the life of Christ, comprising 350 water colors and 161 pen and ink sketches, by JAMES J. TISSOT, purchased in 1900 for

\$60,000, contributed by Members of the Institute. The water colors are on exhibition in the square gallery on the third floor.

(4) The COLLECTION OF ORIENTAL GLASS presented in 1901 by Col. ROBERT B. WOODWARD, Member of the Board of Trustees. To the original collection additions have been made from time to time during the past four years by Col. WOODWARD. This collection is exhibited in the dome room of the second Museum section.

(5) The COLLECTION OF CASTS representing Greek, Roman and later sculpture presented by Members and friends of the Institute in 1898, to which additions have been made from time to time during the past seven years, on exhibition in the vestibule on the first floor of the Museum, second section.

(6) A COLLECTION OF SCULPTURES in Marble and Bronze exhibited in the alcoves of the vestibule on the first floor and in the dome room on the third floor of the Museum, presented by Members and friends of the Institute.

(7) The COLLECTION OF JAPANESE ART presented by Messrs. CARLL H. DE SILVER, ROBERT B. WOODWARD, ALFRED T. WHITE, THOMAS T. BARR, GEORGE C. BRACKETT and others, exhibited in the square gallery on the second floor in the hall of Ethnology, basement floor, and in the dome room, third floor.

(8) Collection of Oriental Art loaned by Mr. CLAYTON L. MOAK and exhibited in the square gallery on the first floor.

(9) The ALFRED DUANE COLLECTION OF EUROPEAN CHINA presented by the Rev. ALFRED DUANE PELL, of New YORK, and exhibited in the square gallery on the first floor.

(10) The MAJOLICA LUNETTE, by GIOVANNI DELLA ROBBIA, presented by Mr. A. AUGUSTUS HEALY, President of the Board of Trustees, and exhibited in the square gallery on the first floor.

(11) The COLLECTION OF ENLARGED BROMIDE PHOTOGRAPHS illustrating the Architecture of Italy and France, exhibited in part in the hall-way of the first Museum Collection.

(12) COLLECTION OF WATER COLORS BY AMERICAN ARTISTS, loaned by Mr. G. H. BUEK and exhibited in the smaller gallery on the third floor.

(13) Collection of some 4,000 photographs of Works of Art, including architecture, mounted, catalogued and arranged in cases for examination or study by the public.

(14) Collection of Greek, Etruscan and Roman Antiquities, presented by many members of the Institute and exhibited in the square gallery on the first floor, and in the dome room on the third floor.

Mr. FREDERICK LOESER presented in 1902 \$10,000, the interest of which is to be expended in the purchase of photographs of works of art, casts of sculptures, and other forms of reproduction of art works, and when the Museum is well supplied with these, the income of the fund may be used in purchasing original works of art.

THE COLLECTION OF LANTERN PHOTOGRAPHS of works of Art, numbering upwards of three thousand slides, mostly colored, has been labeled and catalogued. These lantern slides are used in illustrating lectures on Art subjects given at the Museum Building.

#### DONATIONS, 1904-5.

##### (A) SCULPTURES.

BAKER, Mrs. CHARLES R.

Marble sculpture (with pedestal), "Christ and St. John," by William Ordway Partridge. Presented by Mrs. Baker in memory of the late Rev. Charles R. Baker, D.D.

**CROXSON, Mrs. MARY S.**

Marble bust (with pedestal), "Eve," by Hiram Powers.

**FREIFELD, GEORGE** (through the Museum Collection Fund of 1905).

Marble sculpture (with pedestal), "Polyxena," by Wm. W. Story.

**HEALY, A. AUGUSTUS.**

A marble sculpture from Rome, first or second century, A. D., in Cipolline marble, representing a Caryatid.

**WELCHER, Mrs. FANNY AVERY.**

Bronze group, by Baryé, "Theseus Slaying the Centaur."

**(B) PAINTINGS, ETC.****GEDDES, PETER.**

One oil painting "On the Bosphorus," by F. A. Bridgeman.

**GENUNG, CHARLES H.; CARLSON, EMIL; HOWARD, HENRY; CARRIGAN, WM. L.**

One oil painting, "The Trio," by Herbert Denman, deceased.

**PEABODY, GEORGE FOSTER.**

One oil painting, "Autumn Oaks," Forest of Fontainebleau, by Paul Daugherty.

Two Japanese bronze vases dating about 1876, inlaid with gold and colored bronze. Raised and inlaid decoration.

**PRATT, GEORGE D.**

One oil painting, "The Hour of Prayer at the Moti Musjid, or Pearl Mosque, Agra," by Edwin Lord Weeks.

**SCHIEREN, Hon. CHARLES A.**

One oil painting, "The Captive," by Blakelock.

STEARNS, SYLVESTER L.

One oil painting, "Adoption of the Constitution," by  
J. B. Stearns.

(C) CERAMICS, PORCELAINS AND OTHER ART WORKS.

BANBURY, Rev. J. J.

Thirteen wood and metal figures.  
Nine pieces old porcelain.  
One modern book.

BROOKLYN DAILY EAGLE, per Mr. GILBERT H. EVANS.

Three negatives of the Museum.

DESILVER, Hon. CARL H.

Five Japanese ceramics with five teak stands.  
Two Chinese porcelain vases and  
Nine pieces of Japanese pottery.

HUSTED, Miss KATHERINE M.

Illuminated copy of the Koran.  
Thirteen pieces of old china.

WOODWARD, Col. ROBERT B.

Fifteen Japanese lacquers and one Yatake (ink horn)  
of shibuichi bronze.  
Glass vase with remains of iron rings for suspension.  
Ancient glass: One Rhyton-shaped vase. Five strings  
ancient beads, Roman.

PURCHASES. DEPARTMENT OF FINE ARTS.

*With Museum Collection Fund, 1904*

One oil painting, "Camels Feeding," by Edwin Lord  
Weeks.

From OLcott, Dr. GEORGE N., Columbia University.

Sixteen pieces of ancient pottery, mainly prehistoric  
Italian.

Two pieces Italian ancient bronze.

Eleven terra-cotta beads, mainly Greek.

From SPRAGUE & HATHAWAY, West Somerville, Mass.  
 Photographic enlargements from 5 x 7 negative, No. 56.  
 Series of 1903, North façade, left side portal sculpture, Reims.  
 Nine negatives and nine contact prints.  
 Five photographic enlargements from 5 x 7 negatives.

*With the Woodward Memorial Fund:*

Antique Roman gold jewelry.

**LOANS TO THE DEPARTMENT OF FINE ARTS:**

**BALDWIN, EDWIN.**

One oil painting, "On the Thames," by Frank Meyers Boggs.

**BENEDICT, H. H.**

Two oil paintings, "Le Ravin d'Optevoz," by Daubigny; "Children at Play," by A. Monticelli.

**BUEK, G. H.**

Seventy-six water-color paintings by American artists.

**CULIN, STEWART.**

Oriental and other games, ceremonial objects, etc.  
 Chinese and Japanese porcelain.

**MOAK, CLAYTON L.**

Fourteen pieces Chinese porcelain.  
 One piece Japanese porcelain.  
 One Japanese bronze and five mounts.

**OBRIG, ADOLPH, "The Dakota."**

One oil painting, "Le Dechaumage des Champs," by H. S. Bisbing.

**PUTNAM, W. A., and L. F. ABBOTT.**

One oil painting, "Waterloo Bridge," by Claude Monet.

**VAN WYCK, Mrs. ALBERT.**

Miscellaneous collection of Russian, Scandinavian and other art objects and ivory earrings.

**EAKINS, THOMAS.**

One oil painting of Frank Hamilton Cushing.

**HOLT & Co., HENRY.**

One colored drawing of three fishes (loaned for copying).

### DEPARTMENT OF GEOGRAPHY

**HERBERT L. BRIDGMAN**

*President*

**JAMES CRUIKSHANK, LL.D.**

*Vice-President*

**Prin. WILLIAM J. O'LEARY**

*Secretary*

#### *Executive Committee*

<b>HERBERT L. BRIDGMAN</b>	Dist. Supt. <b>EDWARD B. SHALLOW</b>
<b>Prin. ALMON G. MERWIN, Pd.D.</b>	<b>FREDERICK A. COOK, M.D.</b>
<b>JAMES CRUIKSHANK, LL.D.</b>	<b>GARRETT P. SERVISS, B.A.</b>
<b>LEWIS E. MEEKER, M.D.</b>	<b>DWIGHT L. ELMENDORF</b>
<b>WALTER B. GUNNISON, Ph.D.</b>	<b>HARRINGTON PUTNAM</b>
<b>Prin. WILLIAM J. O'LEARY</b>	<b>BENJAMIN F. SEAVER</b>
<b>Prof. HERSCHEL C. PARKER, Ph.B.</b>	<b>Prin. FREDERICK L. LUQUEER</b>
<b>Prin. ANDREW I. SHERMAN</b>	<b>ERNEST C. ROST</b>
<b>Prin. CHARLES D. RAINIE</b>	<b>Mrs. M. CLAIRE FINNEY</b>

The organization of the Department of Geography was effected on February 15, 1890, with thirty members. The present membership is three hundred and seventy-two. The following lectures were delivered during the past season:

I. Oct. 1—"Labrador and the expedition into the Interior of Labrador in 1903-4," by Mr. DILLON WALLACE, of New York.

Oct. 13—"The Great Chogo Longma and other High Ascents in the Mustagh Range, Ballestan," by Mrs. FANNIE BULLOCK WORKMAN, of London.

Oct. 21—"Record Ascents in the Northwest Himalayas," by Mrs. FANNIE BULLOCK WORKMAN, of London.

*Nov. 4*—"Mt. McKinley and the Expedition of 1903," by **FREDERICK A. COOK, M.D., of Brooklyn.**

*Nov. 11*—"California and the Yosemite," by **MR. HENRY G. PEABODY, of Boston.**

*Dec. 29*—"The Canadian Alps," by **PROF. CHARLES E. FAY, A.M., of Tufts College.**

*Jan. 14*—"Perilous First Ascents in British Columbia and Alberta," by **PROF. HERSCHEL C. PARKER, Ph.D., of Columbia University.**

*Feb. 3*—"The Coast of Labrador," by **MISS ISABEL ROGERS EDGAR, of Philadelphia.**

*Feb. 10*—"The Watkins Glen and other Gorges and Falls in Central New York," by **PROF. RALPH S. TARR, B. S., of Cornell University.**

*Mar. 9*—"Famous Capitols and Castles of the Danube," by **REV. ROLAND S. DAWSON, of Brooklyn.**

*May 16*—"The Tyrolean Alps and the Tyrolese," by **PROF. HENRY E. NORTHROP, A.M.; of Polytechnic Institute.**

*May 22*—"Mt. Washington and the White Mountains in Midwinter," by **PROF. HERSCHEL C. PARKER, Ph.D., of Columbia University.**

A Series of Three Lectures on "European Cities," by **PROF. HENRY E. NORTHROP, A.M., of the Polytechnic Institute:**

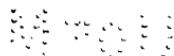
*Dec. 13*—"Modern Berlin."

*Dec. 20*—"Munich and the Bavarian Alps."

*Dec. 27*—"Vesuvius and the Bay of Naples."

All of the above lectures were illustrated by lantern photographs.

II. In addition to the foregoing lectures, all of which were open to the Institute Members on the presentation of the current weekly ticket, the following Special Courses were given under the joint auspices of the Department of Geography and Photography in Association Hall:



I. A Special Course of Six Lectures by Mr. DWIGHT L. ELMENDORF, on Saturday afternoons and evenings, as follows:

*Oct. 15*—"From New York to Algiers."

*Oct. 22*—"Tunis and Tunisia."

*Oct. 29*—"The Edge of the Desert."

*Nov. 5*—"Tangier and Andalusia."

*Nov. 12*—"Old and New Castile."

*Nov. 19*—"Tales from the Alhambra."

Each lecture was illustrated by colored lantern photographs and by motion pictures (with three exceptions) taken by the lecturer.

II. A Special Course of Six Lectures by Mr. GARRETT P. SERVISS, on Saturday afternoons and evenings, as follows:

*Jan. 21*—"The Rhine: Its Legends and Ancient Castles."

*Jan. 28*—"Old Edinburgh and the Romance of Mary Queen of Scots."

*Feb. 4*—"The French Revolution and Paris in Story and Picture."

*Feb. 11*—"The Empire of the Czar: Its Rulers and its People."

*Feb. 18*—"The Land of Hiawatha and Legends of the Iroquois."

*Feb. 25*—"Gettysburg: The Crisis in the Fate of a Nation."

Each lecture was illustrated by lantern photographs colored in natural hues, and each picture, as it appeared on the screen, was accompanied by a descriptive title.

III. A Special Lecture by the Rev. E. WARREN CLARK, formerly of the Imperial University, Tokyo:

*Mar. 16*—"Japan and Her Fight for Life and Humanity," illustrated by lantern photographs.

IV. A Special Course of Five Lectures by Mr. BURTON HOLMES, on Wednesday afternoons and evenings, as follows:

*Mar. 22*—"In London."

*Mar. 29*—"Round About London."

*Apr. 5*—"Beautiful Ireland."

*Apr. 12*—"The Russian Empire."

*Apr. 19*—"Japan."

Each lecture was vivified by pictures in color and pictures in motion taken by the lecturer.

V. A Special Series of Two Lectures (repeated by request) by Mr. DWIGHT L. ELMENDORF, on Saturday afternoons and evenings, as follows:

*Apr. 22*—"A Journey Through Palestine."

*Apr. 29*—"The Edge of the Desert."

Each lecture was illustrated by colored lantern photographs and by motion pictures taken by the lecturer.

VI. A Special Lecture on "Life at the St. Louis Exposition," by the Rev. ROLAND S. DAWSON, on Saturday afternoon and evening, December 31. The lecture was illustrated by lantern photographs and motion pictures.

VII. The Main Geographical Collection of the Department was exhibited from 1897 to 1904 in the large basement room in the first Museum section. The Collection contains upwards of three thousand maps, charts, globes, reliefs, models, books of reference, and other geographical publications. Recent valuable donations have been made to the Collection, and twenty-four geographical models of conspicuous features of the earth's surface, and eight models of Pueblos and cliff dwellings from Arizona, New Mexico and vicinity, together with some fifty enlarged photographic transparencies of places of geographic interest have been recently purchased.

This collection has been in storage during the educational year of 1905, pending the installation of collections in the new Museum section. Portions of the collection will be placed on exhibition during the coming educational year in the new section.

The Geographical Collections of the Children's Museum are open free to the public at all hours when the Museum is open.

Principals and teachers are invited to bring their classes to study the Geographical Collections. The Collections can thus be used in giving illustrated class instruction on Wednesdays to Saturdays, inclusive, each week.

#### DONATIONS 1904-5.

ALLCHIN, Dr. (through G. C. Brackett), London, England.  
Seven "Plateau Flints."

LAMB, Dr. D. S. "The Cumberland," Washington, D. C.  
Skull of Negro.

SKINNER, CHARLES M. Brooklyn Daily Eagle.  
Spears used in the Chino-Japanese war.

STEINMAN, Mrs. HERMANN, Brooklyn.  
Two poisoned arrows; "Cocoa" bottle and carved spindles.

#### DEPARTMENT OF GEOLOGY

Prof. JOHN MICKLEBOROUGH, Ph.D.	<i>President</i>
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THEO. N. GLOVER	WALLACE G. LEVISON, B.Sc.
	FREDERICK BRAUN

The Department of Geology was organized on December

18, 1888, with thirty-four members. Its present membership is one hundred and forty-one. The work of the Department during the past year was as follows:

*Oct. 26*—Lecture on “The Geology and Lithology of New York City,” illustrated by maps and specimens, by Prof. DANIEL S. MARTIN, A.M., of Brooklyn.

*Nov. 30*—Lecture on “Recent Discoveries of Extinct Animals in the Rocky Mountain Region, and their Bearings on Present Problems of Evolution,” by Prof. HENRY F. OSBORN, Ph.D., of the American Museum of Natural History, and of Columbia University.

*Feb. 2*—Lecture on “Ancient Birds and their Associates,” illustrated by lantern photographs, by Mr. FREDERIC A. LUCAS, Curator-in-chief of the Museums.

*Feb. 22*—Conference at the American Museum of Natural History, on “The Vertebrate Fossils in the Collections of the American Museum.” Dr. W. D. MATTHEW, Associate Curator of the Department of Vertebrate Paleontology, described the exhibits.

*Mar. 22*—Lecture on “The Ancient Lava Flows of New Jersey,” illustrated by lantern photographs, by HENRY B. KÜMMEL, Ph.D., Geologist of the New Jersey State Geological Survey, Trenton.

*Mar. 30*—Joint Meeting with the New York Mineralogical Club, at residence of Prof. D. S. MARTIN, A.M., 756 Quincy St., Brooklyn. Program included notes on “The Geology of the Gem Region of Southern California,” by Prof. MARTIN, and on “Galenite Changing to Anglesite,” by Mr. GEORGE E. ASHBY.

*Apr. 26*—Lecture on “The Gateways of the Appalachians; or, the Geological Development and Historical Significance of the Mohawk Valley, the Cumberland Gap, etc.,” illustrated by lantern photographs, by Prof. ALBERT P. BRIGHAM, A.M., of Colgate University.

*May 18*—Lecture on “Fossil-hoofed Animals from Pata-

gonia," illustrated by lantern photographs, by Prof. W. B. SCOTT, Ph.D., of Princeton University.

The Geological Collections of the Institute comprise the following: (1) A collection of lithological specimens representing the drift deposits of Long Island. (2) A collection of fossils found in the drift deposits of Long Island. (3) A collection of sands arranged in stratigraphical series representing the tertiary and quaternary deposits of Long Island. (4) A collection of lithological specimens representing the geological formations (including the drift deposits) on Manhattan Island. (5) A collection of lithological specimens representing the geological formations (including the trap rock of the Palisades) of New Jersey. (6) The GEBHARD Collection representing the paleontology and lithology of Schoharie County, N. Y., described in the eleventh Year Book (1898-9). (7) A lithological collection representing the plutonic rocks of Germany. (8) A collection representing the coal plants of the Pennsylvania carboniferous rocks. (9) A general lithological collection representing typical rocks from various parts of the United States and Europe. (10) A collection of fossils from the geological formations in southern Germany. (11) A collection of fossil fishes presented by the late EUGENE G. BLACKFORD in 1901. (12) A large collection of fossils from the formations in the State of New York made by Mr. FREDERICK BRAUN for the Museum.

The Department of Geology also has the following loan exhibits: (1) A general collection in paleontology and lithology, loaned by Prof. DANIEL S. MARTIN. (2) A fine collection in paleontology specially rich in fossil corals, fossil star-fishes and fossil sponges, loaned by Mr. FREDERICK BRAUN.

The Skeleton of the Mastodon that was acquired in 1899 was mounted in the Natural History Gallery on the second floor of the Museum in March, 1901.

## DONATIONS, 1904-5.

**COCHU, FRED. C.**, Brooklyn.

Slab containing specimens of fossil fishes, Boonton,  
N. J.

**GRIFFITHS**, Estate of W. E.

One fossil fish.

**MORGENTHALER, JACOB.**, Brooklyn.

Piece of fossil wood from Arizona.

**PECK, FREDERICK B.**, Ph.D., Lafayette College, Easton, Pa.

Four cement rocks.

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HIRAM R. STEELE      ARTHUR C. SHENSTONE

This Department was organized on Friday, June 14, 1895, with a membership of one hundred and twenty-three. On January 27, 1896, the Executive Committee held its first meeting and appointed its Standing Committees. The first public meeting was held on Monday evening, March 30, 1896, and the opening Address was delivered by the Hon. EDWARD J. PHELPS, LL.D., ex-Minister to Great Britain.

The present membership of the Department is two hundred and forty-eight. The work of the Department during the past year has comprised the following addresses:

*Oct. 24*—"The Laws of the State of New York," by the Hon. WILLIAM J. KELLY, Justice of the Supreme Court of the State of New York.

*Jan. 19*—"The Rights of Householders," by the Hon. FREDERICK E. CRANE, Judge, Kings County Court (under auspices Department of Domestic Science).

*Apr. 17*—"Due Process of Law," by Prof. ISAAC F. RUSSELL, LL.D., of the New York University Law School.

A Series of Law Lectures for Women, by Mrs. CORNELIA K. HOOD, LL.B., of Randolph, Mass.:

*Mar. 28*—"Special Property Rights of Married Women."

*Apr. 4*—"Essentials to a Valid Will."

*Apr. 11*—"Essentials to a Contract."

*Apr. 18*—"Inheritance Laws."

The Law Department is engaged in making a collection of portraits and busts of eminent jurists and lawyers, and also a collection of rare legal books and papers associated with the study and practice of law which may have an historical or personal value. The presentation of the Portraits as stated above marks the beginning of Museum collections in the Law Department.

#### DEPARTMENT OF MATHEMATICS

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JAMES CRIKSHANK, LL.D.

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Prin. CHARLES W. LYON, Jr.	Prof. JOSEPH BOWDEN, Ph.D.
JAMES CRUTKSHANK, LL.D.	J. P. WINTRINGHAM
Prin. CHARLES D. LARKINS	Prof. J. BRACE CHITTENDEN, Ph.D.
Miss RUTH E. GRANGER	Miss H. EMILY BEECHER

The organization of this Department was effected on May 23, 1890, with a membership of twenty-five. The present membership is ninety-six. The meetings of the Department during the season have been held on Wednesday evenings, as follows:

*Oct. 12*—Lecture on “First Uses of the Equation, with Applications to the Mathematics in the Course of Study in the New York City Schools,” by Prin. DEFOREST A. PRESTON, of Public School No. 131.

*Nov. 9*—Lecture on “Present Tendencies in the Teaching of Arithmetic,” illustrated by lantern photographs, by Prof. DAVID EUGENE SMITH, Ph.D., of Columbia University.

*Dec. 14*—“Lecture on “Axioms and Postulates,” by Prof. JOSEPH BOWDEN, Ph.D., of Adelphi College. A discussion followed the lecture.

*Jan. 11*—Lecture on “A University Course in Graphical Science,” illustrated, by Prof. FREDERICK N. WILLSON, C.E., A.M., of Princeton University.

*Feb. 8*—Conference on “Primary Work in Mathematics,” conducted by Miss RUTH E. GRANGER, Principal of Public School No. 137.

*Mar. 8*—Lecture on “Some Mathematical Conceptions of Infinity,” illustrated, by Com. H. O. RITTENHOUSE, President of the Department. A discussion followed the lecture.

*Apr. 12*—Lecture on “Some Easy and Practical Transitions in Preparatory Mathematics,” by Miss H. EMILY BEECHER, of the Packer Institute. A Discussion followed the lecture.

## DEPARTMENT OF MICROSCOPY.

JOHN J. SCHOONHOVEN  
 THOMAS I. MILLER  
 LAWRENCE L. DUERDEN  
 JAMES WALKER

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*Vice-President*  
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JOSEPH E. BROWN	GEORGE P. SANBORN
HENRY S. WOODMAN	WALLACE GOOLD LEVISON, B.Sc.
LAWRENCE L. DUERDEN	FREDERICK KATO
JAMES WALKER	Mrs. HELEN W. JOY

Miss IDA CLENDENIN

This Department was organized by the Brooklyn Microscopical Society in April, 1888, with a membership of sixty-eight, and is the oldest in the Institute. Its present membership is one-hundred and eleven. The regular meetings held during the year have been as follows:

## I. Lectures:

*Nov. 15*—"Petrified Bacteria from Egypt," illustrated by microscopical preparations and by lantern photographs, by Prof. ALEXIS A. JULIEN, Ph.D., of Columbia University.

*Dec. 13*—"A Grain of Sand," by Mr. GEORGE E. ASHBY, President of the Department of Mineralogy, illustrated by photo-micrographs and by sections of sand-stones prepared by Mr. JAMES WALKER and Mr. ASHBY.

*Apr. 11*—"The Ecology of Some Microscopic Forms of Marine Life," illustrated by lantern photographs, by Mrs. CHARLES B. DAVENPORT, of the Biological Laboratory, Cold Spring Harbor.

## II. Informal meetings and conferences held on the fourth Tuesday evening of the month, affording members an op-

portunity for the discussion and the exhibition of their individual work with the microscope, as follows:

*Oct. 25*—"Plant Sections and What They Teach," conducted by Mr. HENRY S. WOODMAN, Chairman, and other Members, who exhibited and described microscopic preparations.

*Dec. 27*—"Sponges; Their Microscopic Structure," conducted by Mr. JOHN J. SCHOONHOVEN, A.M., Chairman, and Members, who exhibited and described microscopic preparations.

*Feb. 28*—"Lower Plants and Animals (Protophyta and Protozoa)," conducted by Miss MARGARET E. LEE, Miss IDA CLENDENIN, Miss MYRA C. CHATTERTON, and Miss ESTHER F. BYRNES.

*Mar. 28*—"Phosphorescent, Fluorescent, and Radio-Active Minerals," conducted by Mr. THOMAS I. MILLER, Chairman, assisted by Mr. WALLACE GOOLD LEVISON, Sc.B., and Mr. JAMES WALKER. Mineral sections were shown while under the influence of Radium and Ultra-Violet Light.

*Apr. 25*—"Moulds," in charge of Messrs. GEORGE E. ASHBY, HENRY S. WOODMAN and LAWRENCE L. DUERDEN. Microscopic preparations were exhibited and described.

*May 9*—Exhibit of examples of "Pond Life" by Messrs. JAMES WALKER, H. S. WOODMAN and others.

*May 23*—"Seeds and their Distribution," conducted by Mrs. HELEN WARBURTON-JOY, and illustrated by lantern slides. Mr. JAMES WALKER and other Members exhibited and described microscopic preparations.

III. The Eighteenth Annual Exhibition of Microscopic Preparations and Apparatus was held on Saturday evening, February 11, at the Art Gallery, 174 Montague street, from 8 until 11 o'clock.

Thirty-eight microscopes were in use during the evening. The exhibitors were: THE BAUSCH & LOMB OPTICAL

Co., GEORGE A. FISKE, MARTIN E. ALPERS, Jr., MARTIN H. WILCKENS, W. G. BOWDOIN, GEORGE E. ASHBY, BENJAMIN T. VAN NOSTRAND, JAMES WALKER, L. W. FROELICK, EDWARD C. CHAPMAN, JOSEPH EPES BROWN, WILLIAM C. PECKHAM, JOHN J. SCHOONHOVEN, THOMAS I. MILLER, Mrs. HELEN WARBURTON-JOY, FREDERICK KATO, HENRY S. WOODMAN, L. L. DUDERDEN, FRANK HEALY, FRANCIS H. POUGH, W. M. BUTTERFIELD, EIMER & AMEND, J. P. WINTINGHAM, WILLIAM URBAN, FERRIS C. LOCKWOOD, THOMAS CONNOR, GEORGE C. WHIPPLE, and Miss MARY A. BOOTH.

#### THE PERMANENT PUBLIC MICROSCOPICAL EXHIBITION

Under the supervision of Prof. JOHN S. MCKAY, Ph.D., Curator of the collections in the Physical Sciences, five special microscopical cases were constructed in 1890, in which to place for permanent public use the twenty-nine compound microscopes owned by the Institute. Each of these cases is six feet in length, about fourteen inches in height, has a solid wooden bottom, which rests upon a table, and has plate glass in the front, back and two ends. The top of each case is also of plate glass, perforated with holes about two and one-half inches in diameter. Each of the cases is designed to contain six compound microscopes. The microscopes have been placed in the cases with the eye-piece projecting through the round openings in the top. Four of the five cases, containing altogether twenty-three microscopes have been placed on tables on the second floor of the Museum Building, and one, containing six of the microscopes, at the Children's Museum. The microscopes thus placed in the cases can be continuously in use by visitors to the Museum Building. Microscopic objects are placed by the Curator under the several microscopes; the objects are focused, and anyone visiting the Museums may have an opportunity to see at any time at least twenty-nine

interesting microscopic objects. The objects are changed from time to time, so that those who visit the Museum one week may find fresh objects for observation the following week. It is believed that this arrangement of the microscopes for constant public use constitutes the First Permanent Public Microscopical Exhibition in any Museum.

The Department has for use at its meetings at the Museum Buildings thirty good Microscope Stands with attachments to aid in the illustration of subjects under consideration. The same stands are also for the use of other Departments of the Institute. Four microscopes and a collection of microscopical preparations are kept at the Art Building in Montague street, where the regular Conferences by the Department are held.

To the collections and apparatus in Microscopy were added in 1902 the very valuable microscopical outfit of the late S. E. STILES, M.D., formerly President and for many years an active and a very useful and much honored Member of the Department. The collection comprises some 1,100 very excellent microscopical preparations, a compound microscope, with many attachments, including a fine polariscope.

## DEPARTMENT OF MINERALOGY

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FREDERICK KATO  
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JAMES WALKER  
GEORGE L. ENGLISH  
FREDERICK KATO  
FREDERICK BRAUN  
THEO. N. GLOVER

The Department of Mineralogy was organized on November 21, 1888, with twenty-eight members. The present membership is ninety-three. The regular meetings were held Tuesday evenings, and during the year the proceedings have been as follows:

I. Lectures:

*Oct. 11*—Lecture by Prof. GEORGE P. MERRILL, Ph.D., Curator of Mineralogy, National Museum, Washington. Subject: "Stones for Building and Decoration," illustrated by the projection of microscopic sections on the screen, and by lantern photographs.

*Dec. 13*—Lecture by Mr. GEORGE E. ASHBY, President of the Department; subject: "A Grain of Sand," illustrated by photo-micrographs and by sections of sand-stones prepared by Mr. JAMES WALKER and Mr. ASHBY.

*Mar. 7*—Lecture by Mr. WILSON A. BENTLEY, of Jericho, Vt.; subject: "Snow Crystals," illustrated by over one hundred fine pictures of ice crystals or photo-micrographs made by the lecturer. This lecture and illustrations were presented by Mr. GEORGE E. ASHBY, for Mr. BENTLEY, who was unable to be present.

*Apr. 4*—Lecture by Prof. FREDERICK B. PECK, Ph.D., of Lafayette College; subject: "The Geology and Manufacture of Portland Cement in Lehigh and Northampton Counties, Penna.," illustrated by lantern photographs and microscopic sections of cements.

II. Besides the foregoing lectures, Conferences for the exhibition and description of mineral collections of special interest and exceptional scientific value were held on Tuesday evenings, as follows:

*Oct. 18 and Nov. 22*—"Tourmalines." Mr. CHARLES L. HATCH, Chairman, and other members exhibited and described collections.

*Dec. 20*—"The Zinc Silicates," led by Mr. THOMAS I.

MILLER, Chairman; Mr. GEORGE E. ASHBY, Mr. JAMES S. WALKER, and other members exhibited and described collections.

*Jan. 3*—"Flexible Sandstones, their Structure and Cause;" led by Messrs. JAMES WALKER, GEORGE E. ASHBY, and others.

*Feb. 21*—"Lead and Lead Sulphites." Mr. WILLIAM URBAN, JR., Chairman, and other members exhibited and described collections.

*Mar. 21*—"Phosphorescent and Fluorescent Minerals under Radium." WALLACE GOOLD LEVISON, B.Sc., and other members exhibited and described collections.

*Apr. 18*—"Apatite." Mr. FREDERICK KATO, Chairman; Mr. GEORGE E. ASHBY, and other members exhibited and described collections.

*Mar. 30*—Joint Meeting with the New York Mineralogical Club at residence of Prof. D. S. MARTIN, Brooklyn. Program included notes on "The Geology of the Gem Region of Southern California," by Prof. MARTIN, and on "Galenite Changing to Anglesite," by Mr. GEORGE E. ASHBY.

III. The Mineral Collections of the Department have been increased during the past year by the gift of many beautiful, large, rare and instructive specimens, and the Collections will be further enriched during the coming season. Those specimens that are most suitable for public exhibition have been placed in glass cases in the new Museum Building and in the Children's Museum, Bedford Park. Other specimens are arranged for reference in closed cases, and still others await case room for their display. New cases will be added to the Mineral Department during the year to accommodate its collections.

The Children's Museum contains good collections of Minerals and Rocks, to which additions will be made during the coming year.

IV. A Very Valuable Loan Exhibition of Minerals has been placed in the Gallery on the second floor of the new Museum by the following members of the Department: WILLIAM URBAN, Jr., CHARLES L. HATCH, JAMES WALKER, WALLACE GOOLD LEVISON, and Prof. DANIEL S. MARTIN. These loan collections have remained on public exhibition through the courtesy of their owners since the Fourth Annual Mineralogical Exhibition, given in December, 1897, and have added very greatly to the attractiveness of the Museum Collections in Natural History and to the instruction of the public.

DONATIONS, 1904-5.

CRANE, W. H., Brooklyn.

Specimens of Amblygonite, Bismuth, Kunzite, from Pala, Cal.

GRIFFITHS, Estate of W. E.

Ten Minerals.

NORTH CAROLINA GARNET CO. (through M. F. DRUDY, President).

Seven large Garnet crystals mined at Little Pine Creek, N. C.

SQUIERS, FRANK, Brooklyn.

One specimen native Sulphur.

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ARTHUR CLAASSEN	First Vice-President
JOHN HYATT BREWER	Second Vice-President
PERLEE V. JERVIS	Secretary
	Librarian

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*Terms expire in April, 1906*

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*Terms expire in April, 1909*

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\*Deceased.

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*STANDING COMMITTEES, 1905-1906*

The President and Secretary of the Department, and the Director of the Institute, are members *ex-officio* of the Standing Committees.

*Chamber Music Concerts*

JOHN HYATT BREWER	CARL FIQUÉ
Mrs. DWIGHT P. CLAPP	E. I. HORSMAN, Jr.
H. BROOKS DAY	Miss ALICE M. JUDGE
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*Orchestra Concerts*

ARTHUR CLAASSEN	Mrs. GEORGE NOTMAN
Mrs. ANDREW JACOBS	Dr. W. JOHN SCHILDEGE
PERLEE V. JERVIS	STEPHEN P. STURGES

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*Choral Concerts*

JAMES H. DOWNS	WALTER HENRY HALL
HOWARD W. CONNELLY	HENRY E. HUTCHINSON
Mrs. CAMDEN C. DIKE	Mrs. HENRY I. JUDSON
CHARLES STUART PHILLIPS	

*Organ Concerts*

R. HUNTINGTON WOODMAN	GEORGE F. MORSE
Mrs. H. S. ANDERSON	G. WARING STEBBINS
SAMUEL A. BALDWIN	Mrs. MARY WARDELL
SCOTT WHEELER	

*Lectures*

CARL FIQUÉ	BERNARD O'DONNELL
W. F. HERBERT	Mrs. CHARLES F. PRAY
HENRY C. KNIGHT	ALEXANDER RIHM
THOMAS WHITNEY SURETTE	

*Piano and Violin Recitals*

PERLEE V. JERVIS	Miss ALICE M. JUDGE
Miss MARY BENSON	FREDERICK PRESTON
H. BROOKS DAY	Mrs. THOMAS PROSSER
	WILLIAM E. TAYLOR

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Hon. FREDERICK E. CRANE	Mrs. HENRY R. MALLORY
	HENRY ALLAN PRICE

*Musical Instruction*

EDWARD M. BOWMAN	Miss ALICE M. JUDGE
JAMES H. DOWNS	FRANCIS J. MULLIGAN
EDMUND D. FISHER	WILLIAM E. TAYLOR
	WILLIAM A. THAYER

*Song Recitals*

GRAHAM REED	Mrs. FRANK M. LUPTON
SAMUEL A. BALDWIN	FRANCIS J. MULLIGAN
Miss MARY BENSON	HERBERT S. SAMMOND
	SCOTT WHEELER

This Department was organized on November 27, 1891, with fifty-four members. The present membership is two thousand one hundred and fourteen. The work of the Department for the past season comprised the following:

## I. OPENING CONCERT, "IN FAIRYLAND"

This concert, consisting of a miscellaneous programme, together with "In Fairyland," a song cycle of words selected from various authors and music composed by R. Orlando Morgan, was given in Association Hall on Thursday evening, October 20, by Miss ANITO RIO, Soprano; Miss

JANET SPENCER, Contralto; Mr. THEODORE VAN YORX, Tenor; Dr. CARL E. DUFFT, Basso; Mr. ALEXANDER RIHM, accompanist.

## II. A SERIES OF FIVE CHAMBER MUSIC CONCERTS

These concerts were given by THE KNEISEL STRING QUARTETTE; Mr. FRANZ KNEISEL, first violin; Mr. J. THEODOROWICZ, second violin; Mr. LOUIS SVECENSKI, viola; Mr. ALWIN SCHROEDER, 'cello; in Association Hall:

- Oct. 27*—Soloist, Mrs. THOMAS TAPPER, piano.
- Nov. 17*—Soloist, Mr. ARTHUR WHITING, piano.
- Dec. 17*—Soloist, Mr. ALWIN SCHROEDER, 'cello.
- Feb. 9*—Soloist, Mr. FRANZ KNEISEL, violin.
- Mar. 23*—Soloist, Miss MARY WOOD CHASE, piano.

## III. A SERIES OF FIVE EVENING ORCHESTRAL CONCERTS

These concerts were given by the BOSTON SYMPHONY ORCHESTRA, Mr. WILLIAM GERICKE, conductor, in the Baptist Temple, under the auspices of the Department of Music of the Institute and the BROOKLYN PHILHARMONIC SOCIETY, as follows:

- Nov. 4*—Soloist, M. VLADIMIR DE PACHMANN, piano.
- Dec. 9*—Soloist, M. YSAYE, violin.
- Jan. 13*—Soloist, Miss MURIEL FOSTER, contralto.
- Feb. 17*—Soloist, M. EUGEN D'ALBERT, piano.
- Mar. 17*—Soloist, Madame GADSKI, soprano.

## IV. EXPLANATORY RECITALS OF THE WAGNER MUSIC DRAMAS AND BEETHOVEN'S NINTH SYMPHONY

These lecture-recitals were given in Association Hall by Mr. WALTER DAMROSCH, with assisting artists, as follows:

- Nov. 11*—Tristan and Isolde, Act I. Soloist, Mrs. CORINNE RIDER-KELSEY, soprano.

*Dec. 2—Die Meistersinger, Act I. Soloist, Mr. DAN BEDDOE, tenor.*

*Dec. 16—Die Meistersinger, Acts II and III. Soloists: Mrs. BERTHA HARMON FORCE, soprano; Miss BESSIE BON-SALL, contralto; Mr. EDWARD BARROW, tenor; Mr. HARRY LUCKSTONE, baritone; Mr. GEORGE JENKINS, tenor.*

*Dec. 23—Beethoven's Ninth Symphony and the Kreutzer Sonata. Soloist, Mr. DAVID MANNES, violin.*

*Dec. 30—Tristan and Isolde, Acts II and III. Soloist, Mrs. LILLIAN PRAY, soprano.*

NOTE.—The recital given on December 30 was originally announced for November 18, but was postponed by Mr. Damrosch on account of death in the family.

#### V. A SPECIAL ORGAN RECITAL

This recital was given in the New York Avenue M. E. Church, on Thursday evening, November 10, by M. ALEX-ANDRE GUILMANT, of Paris.

#### VI. A SERIES OF SPECIAL PIANO RECITALS

A recital by Mr. JOSEF HOFMANN on Thursday evening, December 1, in Association Hall.

A recital by M. EUGEN D'ALBERT on Thursday evening, January 26, in Association Hall.

A recital by Mr. JOSEF HOFMANN on Thursday evening, March 2, in Association Hall.

A recital by M. IGNACE JAN PADEREWSKI on Monday evening, March 27, in the Baptist Temple.

A recital by M. VLADIMIR DE PACHMANN on Thursday evening, April 13, in Association Hall.

#### VII. "HIAWATHA," A MUSIC DRAMA

Three performances of "Hiawatha," a music drama, presented by Mr. FREDERICK R. BURTON and a company of OJIBWAY INDIANS, were given in Association Hall, as fol-

lows: Friday afternoon and evening, November 25, and Saturday afternoon, November 26.

### VIII. WAGNER'S "PARSIFAL"

Opportunity was given to Members of the Institute to purchase at the Institute Office at reduced rates tickets for certain performances of "Parsifal" at the METROPOLITAN OPERA HOUSE (November 24-January 2), and for "Parsifal" in English by the HENRY W. SAVAGE COMPANY at the Montauk Theatre (January 9-14).

### IX. A SPECIAL CONCERT

A Special Concert by the TYROLEAN ALPINE SINGERS, Herr FRANZ RAINER, Director, from Zillerthal, Tyrol, in national costume, was given on Thursday evening, December 8, in Association Hall.

### X. ORATORIO CONCERT, "THE MESSIAH"

This concert was given in the Baptist Temple on Thursday evening, December 29, by the BROOKLYN ORATORIO SOCIETY, Mr. WALTER HENRY HALL, conductor; assisted by Mrs. ALICE MERRITT COCHRAN, soprano; Miss BESSIE BOWMAN, contralto; Dr. ION JACKSON, tenor; Mr. WILLIAM HARPER, basso, and an orchestra of forty musicians; Mr. GUSTAV DANNREUTHER, concertmeister.

### XI. SPECIAL VIOLIN RECITALS

A Special Violin Recital was given by Mr. FRITZ KREISLER in Association Hall on Thursday evening, January 5.

A Special Violin Recital was given by M. YSAYE in the Baptist Temple on Thursday evening, February 2.

### XII. A SPECIAL CHAMBER MUSIC CONCERT

This concert was given by Miss CLARA OTTEN, piano, Miss ANNA E. OTTEN, violin, and Mr. LEO SCHULZ, 'cello, on Thursday evening, January 19, in Association Hall.

### XIII. A SPECIAL CHORAL CONCERT

The Seventh Annual Choral Concert before the Institute by The Arion Singing Society of Brooklyn, Mr. ARTHUR CLAASSEN, conductor, assisted by Mr. VICTOR HERBERT, 'cello, and Miss LUCY ISABELLE MARSH, soprano, was given in the Baptist Temple on Thursday evening, March 9.

### XIV. ORATORIO CONCERT, VERDI'S "REQUIEM"

This concert was given in the Baptist Temple on Thursday evening, April 6, by the BROOKLYN ORATORIO SOCIETY, Mr. WALTER HENRY HALL, conductor, assisted by Mrs. MARY HISSEM DE MOSS, soprano; Miss JANET SPENCER, contralto; Mr. NICHOLAS DOUTY, tenor; Mr. HENRI G. SCOTT, basso, and an orchestra of forty musicians; Mr. GUSTAV DANNREUTHER, concertmeister.

### XV. A SPECIAL CHORAL CONCERT

This concert was given by the Brooklyn Saengerbund, Mr. HUGO STEINBRUCH, conductor, assisted by Mr. HANS SCHROEDER, baritone, and Miss ANNA E. OTTEN, violin, in Association Hall on Thursday evening, April 27.

### XVI. CLOSING CONCERT, "IN A PERSIAN GARDEN"

This concert, consisting of a miscellaneous programme, together with "In a Persian Garden," by Mme. LIZA LEHMAN, was given in Association Hall on Thursday evening, May 4, by Mrs. CORINNE RIDER-KELSEY, soprano; Miss JANET SPENCER, contralto; Mr. NICHOLAS DOUTY, tenor; Dr. CARL E. DUFFT, basso; Mr. ALEXANDER RIHM at the piano.

XVII. A Course of Four Lecture Recitals on Friday evenings, on "Modern Chamber Music," by Mr. THOMAS WHITNEY SURETTE, with the following subjects and artists:

*Sept. 30*—“Schumann, the Romanticist;” Miss ANNA E. OTTEN, violin; Miss GLADYS NORTH, viola; Miss LILLIAN LITTLEHALES, ’cello, and Miss CLARA OTTEN, piano.

*Oct. 7*—“Mendelssohn, and the Classical Tradition;” Miss ANNA E. OTTEN, violin; Miss LILLIAN LITTLEHALES, ’cello, and Miss CLARA OTTEN, piano.

*Oct. 14*—“Brahms, the Philosopher and Poet;” Miss ANNA E. OTTEN, violin; Miss LILLIAN LITTLEHALES, ’cello, and Miss CLARA OTTEN, piano.

*Oct. 28*—“Grieg, the Spirit of the North;” Miss ANNA E. OTTEN, violin, and Miss CLARA OTTEN, piano.

XVIII. A Course of Six Lecture-Recitals by Mr. CARL FIQUÉ, Member of the Executive Committee and of the Advisory Board of the Department of Music, on “Important Chapters in Musical History,” on Monday afternoons, as follows:

*Jan. 9*—“Tannhäuser;” Mr. FIQUÉ at the piano, assisted by Mme. KATHARINE NOACK-FIQUÉ.

*Jan. 16*—“The Music of Bohemia.”

*Jan. 23*—“Prominent Piano Pedagogues of Past Periods.”

*Jan. 30*—“History and Development of the Dance, from Ancient to Modern Times.”

*Feb. 6*—“The Piano Music of FRANZ SCHUBERT.”

*Feb. 13*—“Rienzi, the Last of the Tribunes.”

XIX. A Course of Six Lecture-Recitals on Monday afternoons on “Searchlights in Modern Music Study,” by Mrs. MARY GREGORY MURRAY, of New York, as follows:

*Feb. 20*—“Music Study as a Liberal Education.”

*Feb. 27*—“The Art of Mastery, or How to Get the Best Out of Our Music Study.”

*Mar. 6*—“The Study of Detail” (“Line Drawing”).

*Mar. 13*—“The Scientific Principle.”

*Mar. 20*—"The Point of Contact" ("Interpretation.")

*Mar 27*—"The Songs of Life," illustrated by selections by Mrs. MURRAY, piano; Mrs. ELIZABETH B. CULBERT, violin, and Mrs. LAURA CHAPIN ALLYN, soprano.

XX. A Course of Six Lecture-Recitals on Friday evenings on "The Development of Romanticism in Song," by JOHN C. GRIGGS, Ph.D., of New York, assisted by Mr. HARRY S. BOCK, piano, and other artists, as follows:

*Mar. 31*—"Haydn, the Perfection of Classical Form;" with illustrations by the OLIVE MEAD STRING QUARTETTE.

*Apr. 7*—"Mozart; the Supreme Genius and Master Workman;" illustrated by Miss SUSAN L. GRIGGS, soprano, and Dr. GRIGGS, baritone.

*Apr. 14*—"Beethoven; Music as Revelation of Individual Experience;" illustrated by Mr. EDWARD STRONG, tenor, and Dr. GRIGGS.

*Apr. 28*—"Schubert; Music as Spontaneous Expression of Life;" illustrated by Miss EDITH R. CHAPMAN, soprano, and Dr. GRIGGS.

*May 5*—"Schumann; the Wave-Crest of Romanticism within Classical Form;" illustrated by Dr. GRIGGS.

*May 12*—"The Song Since Schumann;" illustrated by Dr. GRIGGS.

XXI. A Song-Recital by the GRAMMAR DEPARTMENT OF PUBLIC SCHOOL NUMBER FIVE, Mr. WILLIAM J. O'LEARY, Principal; Miss ALICE M. JUDGE, conductor; assisted by Mrs. EDWARD EVERETT HAND, mezzo-soprano, and Miss KATHRYN PLATT GUNN, violin; in Association Hall, on Wednesday evening, May 17.

XXII. A Lecture-Recital entitled "Songs of Gerald Griffin and Francis A. Fahy," by Mrs. HELEN O'DONNELL, mezzo-soprano, and Mr. BERNARD O'DONNELL, at the piano, on Thursday evening, May 25.

## COURSES OF INSTRUCTION IN MUSIC

XXIII. A Course in "The Development of Instrumental Music" (lectures, piano and other illustrations, readings, papers); by Mr. THOMAS WHITNEY SURETTE, of Teachers College; thirty sessions of one hour each, Friday afternoons.

XXIV. Two evening classes in Sight Singing, Mr. WILBUR A. LUYSTER, instructor, the Reformed Episcopal Church, Nostrand and Jefferson Avenues, Thursday evenings. The first course of ten lessons began October 13 and the second course of ten lessons January 12. The first lecture in each course (October 13 and January 12) was open to all members of the Institute.

The method used by Mr. Luyster was the Galin-Paris-Chevé.

The special committee having the organization of these Sight Singing Classes in charge comprised Messrs. EDWARD M. BOWMAN, FRANCIS J. MULLIGAN, WILLIAM A. THAYER, JAMES H. DOWNS, EDMUND D. FISHER, Mrs. FRANK M. LUPTON and Miss ALICE M. JUDGE.

The Concerts given by the Department have served two purposes in music, (1) the presentation of the best musical compositions by the best musical talent, and (2) instruction concerning the aims and purposes for which different classes of music have been composed, and the means by which the composer has reached his results.

In order to meet the large expenses connected with the Thursday evening concerts, and also to prevent the over-crowding of Association Hall, in which the concerts are given, admission has been by reserved seat tickets. These were purchased by Members of the Institute at a low price. When all the seats were not taken by Members, non-members were allowed to purchase them at the usual concert prices.

At the Philharmonic Concerts, Oratorio Concerts and

Piano or Violin Recitals, given at the Baptist Temple, or at Association Hall, lower rates for reserved seats were secured than are offered for concerts of so high a grade of excellence elsewhere.

XXV. THE LIBRARY of the Department of Music has received a most valuable donation from the BROOKLYN PHILHARMONIC SOCIETY, comprising six thousand six hundred and ten bound volumes of musical compositions in sets, for the use of choruses in rendering oratorios and other choral works. Other additions to the Library are needed, and especially in the direction of Orchestral and Oratorio Scores, that will enable the Institute to present to the public music of the highest standing.

The late JAMES A. H. BELL, Life Member of the Institute, presented his Library of Musical Compositions to the Institute in 1899. The Library contains a large number of works, and is accompanied by a complete catalogue.

The new Academy of Music Building in Lafayette Avenue, between Fulton Street and Flatbush Avenue, has been planned to accommodate the concerts and lecture recitals given by the Institute.

#### DEPARTMENT OF PAINTING

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FREDERICK J. BOSTON	First Vice-President
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Miss S. M. BARSTOW	Secretary

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BENJAMIN EGGLESTON	HARRY ROSELAND

The Department of Painting was organized on May 26th, 1890, with forty-four members. The present membership is two hundred and twenty-nine.

THE DEPARTMENT OF PAINTING is especially interested in providing the means for Art Instruction for students of merit, and to this end it has co-operated with the BROOKLYN ART ASSOCIATION in establishing and in maintaining the EVENING ART CLASSES..

THE EVENING ART CLASSES; Mr. JOSEPH H. BOSTON,  
INSTRUCTOR

These Classes are conducted for the purpose of furnishing instruction in Drawing, Painting and Composition of a high and thorough character.

The Studio Work comprises classes in Drawing from the Antique, in Drawing and Painting from Life, in Portrait Painting, and in Sketching. The classes are conducted by the same methods as those pursued by the best Art Schools in Europe, and by the Art Students' League in New York.

THE SCHOOL CALENDAR

TUITION

EVENING LIFE CLASSES FOR MEN,	By the Term.	By the Year.
7.30 to 10 P. M.....	\$12.00	\$48.00
EVENING PORTRAIT CLASS,		
7.30 to 10 P. M.....	\$12.00	\$48.00
EVENING ANTIQUE CLASSES FOR MEN, AND WOMEN,		
7.30 to 10 P. M.....	\$6.00	\$20.00

The Classes occupy studios in the Art Building, 174 Montague street. The School year is divided into four "Quarters," as follows:

- FIRST TERM, *October 1 to December 1.*
- SECOND TERM, *December 1 to February 1.*
- THIRD TERM, *February 1 to April 1.*
- FOURTH TERM, *April 1 to June 1.*

Applicants to the Life and Painting Classes must submit drawings from cast or life. No examination is required for admission to the Antique Classes. Promotion from the Antique Classes is made with the approval of the Instructor, and is based upon the individual merit of the student's work. Students may register at any time.

Students who do not pay for a year's instruction in advance are required to pay for as many Quarters as they are present. When a student enters more than one class a reduction is made in the tuition. Tuitions by the Quarter are also payable strictly in advance.

For further information concerning the Art Classes, inquire of the Instructor at the School, or at the office of the Institute.

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The following courses of lectures on art subjects announced under the Department of Fine Arts were open to those who attended the Art Classes regularly. The lectures were all fully illustrated by lantern photographs. The lectures are further described under the Department of Fine Arts.

I. Six Lectures on "Old Flemish and Dutch Art," by Fräulein ANTONIE STOLLE, of Boston.

II. Three lectures by Miss ANNA CAULFIELD, of the Chicago Art Institute: (a) "Paris, Literary and Artistic; (b) "American Art and Art in America;" (c) "Mural Art in America."

III. Six Lectures on "American Art," by Mr. ALEXANDER T. VAN LAER, of New York.

IV. Three lectures on "The Life of Christ in Art," by Mme. MARIE L. RANKE, of New York.

The Collections of Paintings at the Museum Building are on exhibition in the galleries on the first and third floors, from 9 A. M. until 6 P. M. each week day, from 7.30 until

9.45 on Thursday evenings, and from 2 until 6 on Sunday afternoons. Admission to the galleries of Paintings is free on all days except Mondays and Tuesdays, when the admission to the Museum is 25 cents for adults and 10 cents for children under sixteen years of age.

#### DONATIONS, 1904-5.

The Collections have received notable additions during the past year through the generosity of Members and friends of the Institute as follows:

**GEDDES, PETER**, Brooklyn.

One oil painting, "On the Bosphorus," by F. A. Bridgeman.

**GENUNG, CHARLES H.**; **CARLSON, EMIL**; **HOWARD, HENRY**; **CARRIGAN, WM. L.**

One oil painting, "The Trio," by Herbert Denman, deceased.

**PEABODY, GEORGE FOSTER**, 28 Monroe Place, Brooklyn.

One oil painting, "Autumn Oaks," Forest of Fontainebleau, by Paul Daugherty.

**PRATT, GEORGE D.**, 245 Clinton Avenue, Brooklyn.

One oil painting, "The Hour of Prayer at the Moti Musjid, or Pearl Mosque, Agra," by Edwin Lord Weeks.

**SCHIEREN, Hon. CHARLES A.**, Brooklyn.

One oil painting, "The Captive," by Blakelock.

**STEARNS, SYLVESTER L.**, Brooklyn.

One oil painting, "Adoption of the Constitution," by J. B. Stearns.

With the income of the **JOHN B. WOODWARD MEMORIAL FUND**, a painting was purchased, entitled "A Grey Morning," by Leonard Ochtman.

Other accessions to the collection of paintings are noted under the Department of Fine Arts.

## DEPARTMENT OF PEDAGOGY

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The Department of Pedagogy was organized on February 26, 1892, with a membership of one hundred and fifty-eight. Its present membership is eight hundred and four.

The purpose of the Department, as expressed in its Constitution, is "to promote knowledge of the science and the art of education." The work of the Department comprises:

1. Addresses on educational questions of large and general import.
2. General courses of lectures on subjects in the curricula of studies and on the methods of teaching.
3. Systematic courses of instruction, with directions for reading and study.

4. Conferences and object lessons in teaching.
5. The establishment of a Library of Pedagogy.
6. The Formation of a Pedagogical Museum as a part of the Museum of Arts and Sciences.

The work as above designated is conducted by the Executive Board and by the following Standing Committees:

1. Committee on Library and Museum.
2. Committee on Educational Psychology.
3. Committee on Art Education.
4. Committee on Kindergarten.
5. Committee on Physical Culture.
6. Committee on THE SCHOOL OF PEDAGOGY.

Each committee has regularly appointed meetings for the consideration of matters pertaining to its own individual work, and members are cordially invited to become active members of such committees as they may elect. An account of the work done under the auspices of the Department and its several Standing Committees during the past year is given below:

I. A Course of Six Lectures on "Pressing Problems in Elementary Education," by Prof. FRANK M. McMURRY, Ph.D., of Columbia University, on Thursday afternoons, as follows:

*Sept. 29*—"Methods of Study; Encouragement of Habits of Reflection among Pupils."

*Oct. 6*—"Methods of Study: Proper Methods of Memorizing."

*Oct. 13*—"Hand Work; Why Hand Work Should Be Highly Valued."

*Oct. 20*—"Hand Work; the Conditions of Successful Hand Work."

*Nov. 3*—"Curriculum: Feasible Omissions for the Curriculum."

*Nov. 10*—"The Better Organization of the Curriculum."

II. A Course of Six Lectures on "The School, the Home, and the Community, and the Readjustment of their Relations to Meet Modern Needs," by Mr. PERCIVAL CHUBB, Educational Director in the Ethical Schools, New York City, on Thursday afternoons, as follows:

*Nov. 17*—"Changes in the Home and the Parental Relationship."

*Dec. 1*—"The Modern City as an Educational Environment."

*Dec. 8.* "The New Burdens and Tasks of the School."

*Dec. 15*—"What Can the School and the Teachers of the Future Accomplish?"

*Dec. 22*—"The Relation of Educational to Social Reform."

*Dec. 29*—"The Need of a New Way of Life: A Plea for Simplification."

### III. Single Lectures and Addresses:

*Oct. 6*—"Qualifications for Teaching," by WILLIAM H. MAXWELL, Ph.D., LL.D., Superintendent of Public Instruction, New York City.

*Jan. 12*—"The Education of the City Youth," by President JOHN H. FINLEY, Ph.D., LL.D., of the College of the City of New York.

*Jan. 17*—"Choice of School and College Studies," by President ARTHUR T. HADLEY, Ph.D., LL.D., of Yale University.

*Feb. 2*—"The Examination of Teachers and School Officers," by Dr. WALTER L. HERVEY, of the Board of Examiners of the Board of Education, New York City.

*Feb. 24*—"The Filipinos and Their Educational Problems," by President FREDERICK W. ATKINSON, Ph.D., of the Polytechnic Institute.

*Mar. 2*—"A Century of Public Schools in New York City," illustrated by lantern photographs, by A. EMERSON PALMER, Secretary of Board of Education, New York City.

*Mar. 3*—"The Educational Exhibits at the St. Louis Exposition," illustrated by lantern photographs, by Associate Superintendent CLARENCE E. MELENEY, of the New York City Schools.

### EDUCATIONAL PSYCHOLOGY

Under the auspices of the Section on Educational Psychology, Mrs. FRANKLIN W. HOOPER, Chairman, a series of afternoon conferences was held, as follows, conducted by Mrs. HOOPER:

*Oct. 13*—"Prose Literature for Children."

*Nov. 10*—"Poetry for Children."

*Dec. 8*—"Illustrated Books for Children."

*Feb. 9*—"Defective Children."

*Mar. 10*—"The Kindergarten: A Conservative Programme."

*Apr. 14*—"Principles of Government in Home and School."

### THE KINDERGARTEN SECTION

Under the auspices of this Section, Miss FANNIBELLE CURTIS, Chairman, the following lectures were given:

A course of six lectures on "The Kindergarten," by Miss SUSAN E. BLOW, of Cazenovia, N. Y., on Thursday afternoons, as follows:

*Feb. 23*—"The Present Theoretic Issue in the Kindergarten."

*Mar. 2*—"The Practical Issue."

*Mar. 9*—"A Conservative Programme."

*Mar. 16*—"A Radical Programme."

*Mar. 23*—"Froebel's View of Man as Child of Nature."  
*Mar. 30*—"Froebel's View of Man as the Child of God."

Under the auspices of this Section, also, the Annual Convention of MOTHERS' CLUBS AND PARENTS' ASSOCIATIONS of Brooklyn was held on Friday afternoon, March 31, in Association Hall. Miss FANNIBELLE CURTIS presided. Addresses were delivered by Mrs. KATE UPSON CLARK on "Essentials and Non-Essentials of Life," and by Dr. ADOLPHUS F. SCHAUFLER on "The Five Gateways."

The program also included a group of songs by Mrs. AMY WOOD SIMS.

#### ART EDUCATION

Under the auspices of the Section on Art Education, Prof. WALTER S. GOODNOUGH, Chairman, the following lectures were given:

*Feb. 17*—Lecture on "Art for the School Room," by Prof. WALTER S. GOODNOUGH.

A course of six lectures on "Artistic Handicrafts," illustrated by lantern photographs, by J. FREDERICK HOPKINS, A.M., Director of Art Instruction, Department of Education, Boston, on successive Monday evenings, beginning Oct. 3. This course was given in conjunction with the Department of Fine Arts, under which the lectures are fully described.

## THE SCHOOL OF PEDAGOGY

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During the school year 1897-8 the Institute was in the receipt of a large number of inquiries, by letter and in person, from teachers in Brooklyn who sought thorough, systematic and high-grade work in the Principles of Education, the History of Education, Psychology as Applied to Teaching, School Management and Discipline, the Elements of Psychology, English Literature, and other subjects, a fuller knowledge of which would be helpful to them in their school work and in enabling them to secure advancement in the grade of their work. These inquiries were followed by a communication, signed by many teachers, petitioning the Institute to establish such Courses of Instruction as are mentioned above.

The several communications were referred to the Departments of Pedagogy and Psychology, by the authority of which a joint committee was appointed to prepare a plan for the establishment of a School of Pedagogy. This Committee consisted of Prin. ALMON G. MERWIN, Pd.D., Chairman; Prin. WILLIAM L. FELTER, Ph.D., LL.D. Assoc. Supt. CLARENCE E. MELENEY, Assoc. Supt. EDGAR DUBS SHIMER, Ph.D., Assoc. Supt. JAMES M. EDSALL, Prof. FREDERICK W. OSBORN, M.A., Prof. WALTER L. HERVEY, Ph.D., Miss SARAH E. SCOTT, Miss EMMA L. JOHNSTON, Principals L. H. WHITE, Ph.D., WILLIAM L. SPRAGUE and WILLIAM McANDREW. The Committee had many meetings, obtained courses of study from the better Schools of Pedagogy in the country, conferred with President Seth Low, LL.D., of Columbia University, and Prof. JAMES E. RUSSELL, Ph.D., Dean, and members of the Faculty of Teachers' College of Columbia University; with Prof. EDWARD R. SHAW, Ph.D., and Prof. EDWARD F. BUCHNER, Ph.D., of the School of

Pedagogy of New York University; with EDWARD G. WARD, then Superintendent of the Brooklyn Schools, and with Supt. WILLIAM H. MAXWELL, Ph.D., of the New York City Schools.

The plan prepared was afterwards approved by the Departments of Pedagogy and Psychology, and by the Governing Boards of the Institute, Columbia University and the University of New York, respectively. The courses of instruction were given in Brooklyn with the co-operation of Teachers College of Columbia University and the School of Pedagogy of New York University.

Six Courses of Instruction were conducted during the year 1898-9, twelve Courses in 1899-1900, fourteen Courses in 1900-1, fourteen in 1901-2, fifteen in 1902-3, fifteen in 1903-4, and sixteen in 1904-5. The number of persons registered in the sixteen classes the seventh or last year was three hundred and sixty-four, or an average of twenty-two in a class.

The Classes in the School of Pedagogy occupy rooms in the Library Building, 201 Montague Street, and in the Art Building, 174 Montague street. The class rooms are provided with chairs, each having a book-rest suitable for use in taking notes.

#### COMMITTEE IN CHARGE OF THE SCHOOL OF PEDAGOGY

Prin. ALMON G. MERWIN, Ph.D., *Chairman*

Dist. Supt. JAMES M. EDSELL	Dist. Supt. JAMES J. McCABE
Prin. WILLIAM L. FELTER, Ph.D.,	Prin. MARY J. C. O'NEIL
LL.D.	Prof. FREDERICK W. OSBORN, M.A.
Prin. EMMA L. JOHNSTON, A.B.	Miss SARAH E. SCOTT, M.A.
Miss CAROLINE B. LEROW	Dist. Supt. EDGAR DUBS SHIMER,
Assoc. Supt. CLARENCE E. MELEY	Ph.D.
NEY	Prin. WILLIAM L. SPRAGUE
Prin. WILLIAM McANDREW	Prin. LASALLE H. WHITE, Ph.D.
Prin. LEWIS H. TUTHILL	Prin. FREDERIC L. LUQUEER, Ph.D.
Prin. ARTHUR C. PERRY, Jr.	Prin. WILLIS D. HUNTLEY

## COURSES OF INSTRUCTION

*In Co-operation with*

## TEACHERS COLLEGE, COLUMBIA UNIVERSITY

I. "The History and Principles of Education." Lectures, required readings, reports, and discussions. Prof. PAUL MONROE, Ph.D., of Teachers College, Columbia University. One hour a week for thirty weeks, on Monday evenings, beginning October 10 at 8 o'clock.

II. "Nineteenth Century Poetry." Recitations, conferences, readings, reports. Prof. FRANKLIN T. BAKER, A.M., of Teachers College, Columbia University, on Wednesday afternoons at 4.15, beginning on October 12th. Thirty sessions of one hour each.

III. "Theory and Practice of Teaching English in Elementary Schools." Lectures, readings, class discussions. Prof. FRANKLIN T. BAKER, A.M., on Wednesday evenings, at 7.45, beginning on October 12. Thirty sessions of one hour each.

IV. "A Course in Elementary German (a)." Reading, grammar and composition. Prof. WILLIAM ADDISON HERVEY, A.M., of Columbia University. A One Year's Course. Sixty sessions of one and one-half hours each. Monday and Thursday afternoons, from 4.15 until 5.45 o'clock, beginning on October 10.

V. "Intermediate Course in German (2a)." Intended for those students who have taken the preceding Course or its equivalent. Prof. WILLIAM ADDISON HERVEY, A.M. Thirty sessions of two hours each, Monday evenings, 8 until 10 o'clock, beginning October 10.

VI. "Advanced Course in German: Selected Works of Goethe, Schiller and Lessing (3b)." Prof. WILLIAM A. HERVEY, A.M. Thirty sessions of two hours each, Thursday evenings, beginning October 13, from 8 until 10 o'clock.

VII. "The Development of Instrumental Music." Lectures, piano and other illustrations, readings, papers. Mr. THOMAS WHITNEY SURETTE, of Teachers College. Thirty sessions of one hour each, Friday afternoons at 4 o'clock, beginning October 14.

VIII. "Studies in Old Testament Literature." Lectures, readings, recitations, written and reference work. Prof. RICHARD M. HODGE, D.D., of Teachers College. Thirty sessions of one hour each, Tuesday afternoons at 4.30 o'clock, beginning October 11.

IX. "On Methods of Teaching Biblical Literature in the Home, School, and Church." Lectures, reading, recitations, written and reference work. Prof. RICHARD M. HODGE, D.D., of Teachers College. Thirty sessions of one hour each, Tuesday afternoons at 3.30 o'clock, beginning October 11.

The foregoing nine courses were equivalent to courses given in Teachers College, Columbia University, Manhattan. Examinations were given at the middle and at the end of each year to those who took the courses. Those who completed a course satisfactorily were given a certificate by the Institute stating what work had been done. Those who desired to receive credit for their work at Teachers College matriculated at Teachers College (if they had not already done so) by registering at the College and paying the Matriculation Fee of \$5. Students who had registered and matriculated at Teachers College, and who desired credit at Teachers College for a given course, paid to Teachers College (in addition to the Fee paid at the Institute) \$5.00 additional for each thirty weeks' instruction of one hour per week.

Persons desiring to pursue any one of the foregoing courses, who had not a teacher's license, certificate or diploma, but who were otherwise well qualified to pursue a course of study in the School, were admitted as *Visiting Members*

of a class on the same terms as those in regular standing in the class. Visiting Members, who desired, were, upon application to the Instructor, excused from the mid-year and final examinations.

### COURSE OF INSTRUCTION

*In Co-operation with*

### THE SCHOOL OF PEDAGOGY, NEW YORK UNIVERSITY

X. "American History and Civics." Readings, conferences, discussion. Prof. J. P. GORDY, Ph.D., LL.D., of the School of Pedagogy, New York University. A One-year's Course. Thirty sessions of one hour each, at 8.15 P. M., beginning on Tuesday, October 11. Library Building, 201 Montague street.

Those who completed the above course (X.) satisfactorily were given a certificate by the Institute stating what work has been done, and were also credited by the School of Pedagogy of New York University with the course toward a Diploma or Degree granted by that University, in case they complied with the conditions for registration and matriculated in the University School of Pedagogy.

Persons desiring to pursue Course X., who had not a teacher's license, certificate, or diploma, but who were otherwise well qualified to pursue a course of study in the School, were admitted as *Visiting Members* of a class on the same terms as those in regular standing in the class.

### ADDITIONAL COURSES IN THE SCHOOL OF PEDAGOGY

The Department of Education of the City of New York gives credit to those who successfully pursue any one of the courses in the School of Pedagogy of the Institute, sub-

ject to the rules and regulations laid down by that Department of the city government.

XI. "The Aim, Scope and Methods of Moral Education." Lectures, discussions, reference readings. Prof. EDWARD HOWARD GRIGGS, A.M., President of the Department of Philosophy. Thirty sessions of one hour each, Saturdays at 2 o'clock, beginning on October 15.

XII. "American Literature." Lectures, discussions, reference readings, written reports. Prof. WILLIAM CRANSTON LAWTON, A.M., of Adelphi College. Thirty sessions of one hour each. Saturday mornings at 11 o'clock, beginning October 15.

XIII. "A Course in Oral English." Class and individual instruction. HENRY GAINES HAWN, President of the National Association of Elocutionists. Thirty sessions of one hour each, Friday evenings at 8 o'clock, beginning on October 14.

XIV. "Methods of Teaching the Oral Use of English." Lectures, conferences, exercises. Prof. ERASTUS PALMER, of the College of the City of New York. Thirty sessions of one and one-half hours each, Saturday mornings at 9.30 o'clock, beginning October 15.

XV. "The Analytic Study of English." Lectures, discussions, research work. Prof. E. LYELL EARLE, Ph.D., formerly Professor of Pedagogy, Washington University, and State Institute Lecturer and Professor of Methods in Xavier College. Thirty sessions of one hour each; Saturday afternoons at 4.30 o'clock, beginning November 5.

XVI. "Theoretical and Practical Economics." Recitations, discussions, readings. Miss JESSIE WALLACE HUGHAN, A.M. Thirty sessions of one hour each, Friday afternoons at 4 o'clock, beginning October 14.

## GENERAL INFORMATION CONCERNING THE SCHOOL OF PEDAGOGY

Courses I., III., XI., XIV. and XV. were accepted by the Department of Education of the City of New York as falling under "*The Principles and Methods of Teaching*," or as strictly Pedagogical or Professional Courses. The remaining courses, excepting only the beginning class in German, were accepted by that Department of the City Government as falling under the category of "*Literature, Art, or Science*," and credit for these courses was given by the Department of Education according to the rules of the Department.

Persons desiring to register for any Course of Instruction may do so at the office of the Institute, 502 Fulton street, after September 15th, or at the Library Building, 201 Montague street, or at the Art Building, 174 Montague street, previous to the opening session of a class.

Certificates of attendance are issued to all persons who pursue courses of study in the School of Pedagogy.

Certificates are issued by the Institute to all persons who fulfill the requirements for admission to a course of study and who complete the work of a course in a manner satisfactory to the instructor.

Tuition fees must be paid in advance. For Members of the Institute there is a reduction of \$2.00 in the amount of the fee for each course of thirty hours.

For blank forms of certificates of admission to classes in the School of Pedagogy, or for further information, apply to Prof. FRANKLIN W. HOOPER, M.A., at the Institute office, 502 Fulton street, Brooklyn, between 9 A. M., and 12 M., or between 3 and 6 P. M.

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The Courses of Instruction in the Summer School at the BIOLOGICAL LABORATORY, Cold Spring Harbor, enumerated in the latter part of this Year-book, are established primarily

for the benefit of teachers. Those in attendance for six weeks, and whose work is satisfactory to the Instructor, receive certificates of attendance and scholarship.

### PHYSICAL CULTURE

Under the auspices of this Section, special courses of instruction in "Physical Training" were given under the direction of Miss ELIZABETH BREMNER, Chairman of the Section, and Miss ADA MOSELEY, Director of Physical Training at the Berkeley Institute, Brooklyn.

There were three classes under the auspices of the Institute this season—a Class for Girls, a Class for Women, and a Class for Business Women. The Girls' Class and the Business Women's Class each had two terms of twenty lessons. The Women's Class had three terms, two of twenty and one of ten lessons.

	Began.	Closed.	Membership.	Average Attendance.
<b>GIRLS' CLASS:</b>				
First term....	Oct. 24	Jan. 12	21	14
Second term...	Jan. 16	Mar. 23	16	12
<b>WOMEN'S CLASS:</b>				
First term....	Oct. 25	Jan. 20	33	17
Second term...	Jan. 24	Mar. 31	36	18
Third term....	Apr. 4	May 12	16	12
<b>BUSINESS WOMEN'S CLASS:</b>				
First term....	Oct. 25	Jan. 20	30	18
Second term...	Jan. 24	Mar. 31	23	16

### SPECIAL COURSES OF INSTRUCTION IN DOMESTIC ART

I. ARTISTIC WEAVING.—Fifteen lessons, two hours each, following the evolution of weaving, beginning with the weaving of unspun materials and developing spinning and weaving as a practical house industry, applying the handi-

craft to the requirements of the modern woman. Miss EVALYN M. GRISWOLD, Instructor. Thursday afternoons, beginning January 12, from 3 until 5 o'clock, at Miss Griswold's studios, 221 Washington avenue.

II. BASKETRY. Fifteen lessons—eight lessons in Woven Basketry, using palm bark, reed, cane, splint and pith; and seven lessons in Sewed or Coiled Basketry, using bast, grass, splint, corn-husk, fiber leaf and raffia. Miss EVALYN M. GRISWOLD, instructor. Saturday mornings, beginning January 14, from 10 until 12 o'clock, at Miss Griswold's studios.

III. POTTERY. Fifteen lessons. Articles made were such as are in ordinary domestic use—flower pots, salad bowls, etc., and the work was directed toward the designing of forms which were useful and beautiful. The work was done by hand, using the coil and modeling. Miss ISABEL MOORE KIMBALL, instructor. Tuesday afternoons, beginning January 10, from 3 until 5 o'clock.

### DEPARTMENT OF PHILOLOGY

Prof. BRAINERD KELLOGG, LL.D.	<i>President</i>
Prof. J. W. ABERNETHY, Ph.D.	<i>Vice-President</i>
Prof. R. J. H. GOTTHEIL, Ph.D.	<i>Corresponding Secy.</i>
Miss EMILY G. BRIDGHAM	<i>Recording Secretary</i>

#### *Executive Committee*

Prof. BRAINERD KELLOGG, LL.D.	Prof. EDWARD HOWARD GRIGGS,
Prof. J. W. ABERNETHY, Ph.D.	M.A.
Prin. WALTER B. GUNNISON, Ph.D.	EDWARD S. HAWES, Ph.D.
Prof. VIOLETTE E. SCHARFF, A.B.	Miss EMILY G. BRIDGHAM
Prof. R. J. H. GOTTHEIL, Ph.D.	Prof. WILLIAM CRANSTON LAWTON
	Prof. JOHN F. COAR, Ph.D.

#### *Committee on English Language*

Prof. BRAINERD KELLOGG, LL.D.	JAMES CRUIKSHANK, LL.D.
WILLIAM H. MAXWELL, Ph.D.	Miss CAROLINE B. LEROW
Prof. CHARLES BELL BURKE, A.B.	Miss EMILY G. BRIDGHAM
Miss M. J. BRINK	EDWIN G. WARNER, Ph.D.

*Committee on English Literature*

Prof. J. W. ABERNETHY, Ph.D.	Prin. WALTER B. GUNNISON, Ph.D.
TRUMAN J. BACKUS, LL.D.	Miss JOSEPHINE E. HODGDON
Miss CHRISTINA ROUNDS	FRANK WADLEIGH CHANDLER, B.A.

*Committee on French Language and Literature*

Prof. VIOLETTE E. SCHARFF, A.B.	Miss ALICE HIGGINS
Prof. GUSTAV CARTEAUX	Miss LOUISE BOTH-HENDRIKSEN

*Committee on German Language and Literature*

(See German Section)

*Committee on Oriental Languages and Literatures*

Prof. R. J. H. GOTTHEIL, Ph.D.	Rev. REESE F. ALSOP, D.D.
Rev. ALBERT J. LYMAN, D.D.	Rev. L. MASON CLARKE, D.D.
Prof. A. V. W. JACKSON, Ph.D.	

The Department of Philology was organized on January 14, 1891, with ninety-two members. The present membership is one thousand three hundred and sixty-seven. The work of the Department has been conducted by the various standing committees of the organization, under the direction of the Executive Committee. The meetings and lectures of the Department and its various sections during the year have been as follows:

I. A Course of Six Lectures on "Social Forces in the Victorian Novel," by LESLIE W. SPRAGUE, A.M., of Montclair, N. J., on Tuesday afternoons, as follows:

*Oct. 4*—"Charles Dickens, and the Plaint of the Poor."

*Oct. 11*—"William M. Thackeray, and the Unrest of the Rich."

*Oct. 18*—"Charlotte Bronté, and the Pain of the Toilers."

*Oct. 25*—"Charles Kingsley, and Turning to the Church for Help."

*Nov. 1*—"George Eliot, and the Enkindled Social Conscience."

*Nov. 8*—"Mrs. Humphrey Ward, and the Socialistic Agitation."

II. A Course of Twelve Lectures on "Shakespeare," by Prof. EDWARD HOWARD GRIGGS, A.M., L.H.D., President of the Department of Philosophy, on Wednesday evenings, as follows:

*Oct. 5—"The Humanity of Shakespeare."*

*Oct. 12—"The Early Aspect: A Midsummer Night's Dream."*

*Oct. 19—"The Ethical Awakening: The Merchant of Venice."*

*Oct. 26—"The Relief in Nature: As You Like It."*

*Nov. 2—"The Individual and the State: Julius Cæsar."*

*Nov. 9—"World Forces and the Individual: Antony and Cleopatra."*

*Nov. 16—"Facing the Mystery: Hamlet."*

*Nov. 23—"The Tragedy of Love and Jealousy: Othello."*

*Nov. 30—"The Tragedy of Unfounded Trust: King Lear."*

*Dec. 7—"The Tragedy of Ambition: Macbeth."*

*Dec. 14—"The Story of Human Life: The Winter's Tale."*

*Dec. 21—"The Final Attitude: The Tempest."*

III. A Course of Six Lectures on "The English Drama," by RICHARD BURTON, L.H.D., Ph.D., of Boston, on Tuesday afternoons, as follows:

*Jan. 3—"The Drama as a Form of Literature."*

*Jan. 10—"The Drama as a Social Force."*

*Jan. 17—"The Glory of the Drama: Shakespeare."*

*Jan. 24—"The Restoration Comedy: Congreve and His Fellows."*

*Jan. 31—"Sheridan and Goldsmith."*

*Feb. 7—"The Modern Play: Ibsen and His English Followers: Phillips and the Poetic Drama."*

IV. A Course of Six Lectures on "Romanticism in France in the Early Nineteenth Century," by LEON H. VINCENT, A.M., of Boston, on Tuesday afternoons, as follows:

*Feb. 14*—"Beginnings of the Romantic Movement."

*Feb. 21*—"Victor Hugo, the Chief of the 'Romantics'."

*Feb. 28*—"Theophile Gautier, the Historiographer Royal of the Movement."

*Mar. 7*—"Alexandre Dumas and His Adventures."

*Mar. 14*—"George Sand, Her Life, Her Art, Her Philosophy."

*Mar. 21*—"Balzac: A Study in Will Power and Eccentricity."

V. A Course of Three Lectures on "Gaelic Literature," by Prof. THOMAS GAFFNEY TAAFFE, A.M., of the College of the City of New York, on Wednesday afternoons, as follows:

*Mar. 1*—"The Mythological Period."

*Mar. 8*—"The Heroic Period."

*Mar. 15*—"Anglo-Irish Literature of the Nineteenth Century."

VI. A Course of Six Lectures on "Goethe's Faust," by Miss SUSAN E. BLOW, of Cazenovia, N. Y., on Thursday afternoons, as follows:

*Apr. 6*—"Generative Thought of the Drama."

*Apr. 13*—"The Genesis of Mephistopheles."

*Apr. 27*—"The Contract."

*May 4*—"Auerbach's Cellar and Witch's Kitchen."

*May 11*—"The Ruin of the Family."

*May 18*—"The Prologue in Heaven."

VII. A Course of Four Lectures on "Spanish Drama and Romance," by Prof. FRANK W. CHANDLER, Ph.D., of the Polytechnic Institute, on Wednesday afternoons, as follows:

*Apr. 26*—"The Romance of Chivalry and the Pastoral."

*May 3*—"The Romance of Roguery."

*May 10*—“The Plays of Calderon.”

*May 17*—“Don Quixote.”

VIII. Single Lectures:

*Oct. 8, 3 P. M.*—“Robert Louis Stevenson and His Message,” by the Rev. W. J. DAWSON, of London, England.

*Oct. 8, 8.15 P. M.*—“Oliver Cromwell,” by the Rev. W. J. DAWSON.

*Dec. 30*—“The Rev. Charles Wagner and the Simple Life,” by LESLIE W. SPRAGUE, A.M.

*Mar. 10*—“The Literature of Finland,” by Prof. H. MONTAGUE DONNER, A.M.

*Apr. 8*—“Thoreau,” illustrated by lantern photographs, by Mr. HERBERT W. GLEASON, of Boston.

IX. *Oct. 17*—The Hawthorne Centennial. Address on “Nathaniel Hawthorne and His Works,” by BLISS PERRY, L.H.D., Editor of the “Atlantic Monthly.”

SPECIAL DRAMATIC READINGS

X. A Special Series of Four Dramatic Readings, in Association Hall, on Saturday evenings, as follows:

*Dec. 3*—“David Garrick,” by Mr. LELAND T. POWERS.

*Dec. 10*—“Poems of Rudyard Kipling, by Prof. THOMAS WHITTEMORE, of Tufts College.

*Dec. 17*—“A Story Teller’s Night”: An Author’s reading of stories of distinct American types, and read for the first time on this occasion: (a) “An Extra Blanket,” (b) “A Point of Honor,” (c) Selections from “Colonel Carter’s Christmas,” “Little Jim and Chad”; by Mr. F. HOPKINSON SMITH.

*Dec. 24*—Richard Wagner’s “Parsifal,” by Mrs. BERTHA KUNZ-BAKER, with incidental music by Mr. ADOLPH GLOSE, pianist.

XI. A Special Series of three dramatic readings, in Association Hall, on Friday evenings, as follows:

*Jan. 27*—Shakespeare's "Much Ado About Nothing," by Miss JESSIE K. WATSON, of the Berkeley Institute, Brooklyn.

*Feb. 3*—Zangwill's "Merely Mary Ann," by Miss JENNIE MANNHEIMER, Director of the School of Expression, College of Music, Cincinnati, Ohio.

*Feb. 10*—Henrik Hertz's "King René's Daughter," by Miss GRACE CHAMBERLAIN, of Wellesley College.

XII. A Special Series of three dramatic readings by Mr. GEORGE RIDDLE, on Saturday evenings, in Association Hall, as follows:

*Mar. 4*—"A Midsummer Night's Dream," with Mendelssohn's music by the Listemann Sextette.

*Mar. 11*—Readings from Dickens, Meredith, Thackeray, and Hawthorne.

*Mar. 18*—Shakespeare's "Hamlet."

#### DRAMATIC PRESENTATIONS

XIII. Three performances of "Hiawatha," a music drama, presented by Mr. FREDERICK R. BURTON and a company of Ojibway Indians, were given in Association Hall, as follows: Friday, Nov. 25, 4 P. M., and 8.15 P. M., and Saturday, Nov. 26, 3 P. M.

XIV. Opportunity was given to Members of the Institute to purchase at the Institute Office at reduced rates tickets for certain performances of "PARSIFAL" at the METROPOLITAN OPERA HOUSE (Nov. 24-Jan. 2), and for "PARSIFAL" in English by the HENRY W. SAVAGE COMPANY at the Montauk Theatre (Jan. 9-14).

XV. The Picture Play, "The Girl and the Guardsman," was presented on April 1, 8.15 P. M., in Association Hall, by Mr. Alexander Black, of Brooklyn.

## THE CLASSICAL SECTION

I. A Course of Six Lectures on "Greek Art and Archæology," illustrated by lantern photographs, by Prof. RUFUS B. RICHARDSON, A.M. (ten years Director of the Classical School in Athens), on Thursday evenings, as follows:

*Sept. 29*—"Athens."

*Oct. 6*—"Mycenæ and Crete."

*Oct. 13*—"A Tour in Northern Greece."

*Oct. 20*—"A Tour in the Peloponnesus."

*Oct. 27*—"Dalmatia."

*Nov. 3*—"The Ancient Cities and Temples of Sicily."

II. A Course of Six Lectures on "Heroic Figures in Greek Tragedy," by Prof. WILLIAM CRANSTON LAWTON, A.M., of Adelphi College, on Monday afternoons, as follows:

*Nov. 14*—"Prometheus: The Divine Champion of Man."

*Nov. 21*—"Orestes: Man as an Obedient Instrument of the Divine Will."

*Nov. 28*—"Œdipus: Man Unconsciously Fulfilling His Doom."

*Dec. 5*—"Antigone: The Conflict between Human and Divine Will."

*Dec. 12*—"Hippolytos: Man the Innocent Victim of Divine Jealousy."

*Dec. 28 (Wed.)*—"Alcestis: The Glory of Self-Sacrifice."

III. A Series of Six Conferences on "The Idyls of Theocritus," with special reference to the dramatic presentation in Greek Language and costume of six of the Idyls of Theocritus later in the season; conducted by Prof. WILLIAM CRANSTON LAWTON, A.M., of Adelphi College, on Monday afternoons, as follows:

*Jan. 9*—"The Reapers" (Idyl X.).

*Jan. 16*—"The Feast of Adonis" (Idyl XV.).

*Jan. 23*—"The Vengeance of Love" (Idyls III. and XXIII.).

*Jan. 30*—"The Singing Match" (Idyl V.).

*Feb. 6*—"The Magic Wheel" (Idyl II.).

*Feb. 13*—"The Bridal of Helen and Menelaos" (Idyl XVIII.).

IV. On Thursday, Feb. 23, at 4 P. M. and 8.15 P. M., there were two presentations of "The Feast of Adonis" and other idyls of Theocritus, in dramatic form and in Greek costume, under the direction of Miss MABEL HAY BARROWS, with original music by Miss CONSTANCE MILLS; preceded by the Delphic Hymn to Apollo and followed by Greek dances by a chorus of maidens.

THE CLASSICAL MUSEUM. The first section of the Museum Building of the Institute contains four galleries designed especially to contain collections representing the History of Greek and Roman Art. The first of these galleries is the GREAT HALL OF GREEK SCULPTURE, 110x38 feet and 29 feet high, constructed for the exhibition of replicas of the most important works in Greek Sculpture and Archæology. The second and third galleries are planned to receive replicas of Architectural subjects, including metopes, friezes, columns, capitals, pedestals and bas-reliefs in general. The fourth gallery is designed to receive reproductions of Roman Sculpture.

The Museum received from the British Museum in August, 1900, a set of electrotype reproductions of the British Museum Collection of Greek Coins. These were placed on exhibition in the Autumn of 1900.

#### COURSES OF INSTRUCTION IN ENGLISH LITERATURE

Special courses of instruction, consisting of thirty sessions each, as follows:

1. "Nineteenth Century Poetry," by Prof. FRANKLIN T. BAKER, A.M., of Columbia University.
2. "Theory and Practice of Teaching English in Elementary Schools," by Prof. FRANKLIN T. BAKER, A.M.
3. "The Analytic Study of English," by Prof. E. LYELL EARLE, Ph.D.
4. "American Literature," by Prof. WILLIAM CRANSTON LAWTON, A.M., of Adelphi College.
5. "A Course in Oral English," by HENRY GAINES HAWN, President of the National Association of Elocutionists.
6. "Methods of Teaching the Oral Use of English," by Prof. ERASTUS PALMER, of the College of the City of New York.

#### COURSES IN BIBLICAL LITERATURE

Special courses of instruction, consisting of thirty sessions each, as follows:

1. "Studies in Old Testament Literature," by Prof. RICHARD M. HODGE, D.D., of Teachers College.
2. "Methods of Teaching Biblical Literature," by Prof. RICHARD M. HODGE, D.D.

#### FRENCH LANGUAGE AND LITERATURE

The following lectures were delivered (in French) under the joint auspices of Adelphi College, the Alliance Française of Brooklyn, and the Institute, in the Assembly Hall, Adelphi College, on Tuesday evenings.

*Nov. 8*—"Les Années de Journalisme de quelques grandes Auteurs," illustrated, by Prof. ANDRÉ TRIDON, A.M., of the College of the City of New York.

*Nov. 22*—"Notre Dame, son Histoire et son Architecture, illustrated, by Professor TRIDON.

*Dec. 6*—"L'Art dans la Rue à Paris," illustrated, by Professor TRIDON.

*Dec. 20*—"Les vieilles Chansons de France," by Prof. HENRI BARGY, A.M., of Columbia University. Vocal solos by Miss A. ANDERSON and Mr. V. M. DE ROQUELAINE.

*Jan. 17*—"La Chanson Moderne en France," by Professor BARGY, with vocal illustrations by Miss A. ANDERSON and Mr. V. M. DE ROQUELAINE.

*Feb. 14*—"La Jeunesse de Lafayette," by Prof. JEAN LEBARS, A.M., of the College of the City of New York.

*Feb. 28*—"René Bazin," by Professor LEBARS.

*Mar. 14*—"La Bretagne, ses Contes, ses Legendes, etc.," illustrated, by Professor LEBARS.

*Mar. 28*—"Histoire de la Comédie française la Maison de Molière," by Prof. VICTOR E. FRANÇOIS, A.M., of the College of the City of New York.

*Apr. 11*—(a) "L'Academie française," (b) "Le 4<sup>ie</sup> Fanteuil;" by Professor FRANÇOIS.

*Apr. 25*—"La Fontaine," by Professor FRANÇOIS.

*May 9*—"Les vieux Contes français," by Prof. ALBERT SCHINZ, Ph.D., of Bryn Mawr College.

*May 23*—"Les contes chevaleresques," by Professor SCHINZ.

#### THE GERMAN SECTION

Members of the Institute interested in the organization of a German Section were invited to meet at the Art Building the evening of November 25; a subsequent meeting was held on December 16, at which the following officers were elected:

Prof. JOHN F. COAR, Ph.D.	<i>President</i>
Hon. CHARLES A. SCHIEREN	<i>First Vice-President..</i>
Mrs. OTTO GOEPEL	<i>Second Vice-President</i>
Miss MARGARET DREIER	<i>Third Vice-President</i>
Prof. HENRY E. NORTHRUP, A.M.	<i>Secretary</i>

*Executive Committee*

(Consisting of the Officers, Chairmen of the three standing Committees, and two elected members.)

Prof. JOHN F. COAR, Ph.D.	FRANCIS H. STUART, M.D.
Hon. CHARLES A. SCHIEREN	F. W. WUNDERLICH, M.D.
Mrs. OTTO GOEPFL	Mr. CARL FIQUÉ
Miss MARGARET DREIER	Rev. DR. JACOB LOCH
Prof. HENRY E. NORTHROP, A.M.	Mr. ARTHUR CLAASSEN

*Committee on Lectures*

FRANCIS H. STUART, M.D., *Chairman*

Mrs. ROSALIE O. BERKEFELD	Miss MARGARET EVANS
Mr. ROBERT B. MARVIN	Miss LOUISE M. HEUERMANN

*Committee on Drama*

F. W. WUNDERLICH, M.D., *Chairman*

Mrs. F. W. HINRICHES	Mrs. PAUL LICHTENSTEIN
Mr. GUSTAV HEUBACH	Mrs. F. H. DEWEY

*Committee on Music*

MR. CARL FIQUÉ, *Chairman*

MR. ALEXANDER RIHM	MR. PAUL LICHTENSTEIN
DR. OSWALD JOERG	MISS ADA PALMEDO

The Constitution of the Section states that the purposes of the Section shall be to provide facilities for the study and the enjoyment of the German Language and Literature through courses of instruction, series of lectures and addresses, the presentation of German plays, folksongs and operas, and in such other ways as may be found practicable from time to time.

Under the auspices of the Section, a course of four lectures on "Friedrich von Schiller" was delivered by Prof. JOHN F. COAR, Ph.D., President of the Section, on Friday afternoons, as follows:

Mar. 31—"Schiller, the Reformer of the Revolution."

Apr. 7—"Schiller, the Philosopher of History."

Apr. 14—"Schiller, the Esthetic Preacher."

Apr. 28—"Schiller, the Teacher of Democracy."

Also, on Monday evening, May 8, under the auspices of this Section, members and guests of the Institute commemorated the one hundredth anniversary of the decease of FRIEDRICH VON SCHILLER. Hon. CHARLES A. SCHIEREN presided. Addresses were delivered by Prof. JOHN F. COAR, Ph.D., and the Rev. JOHN J. HEISCHMANN, D.D., the latter speaking (in German) on Schiller's Influence on Germans. Music was furnished by the BROOKLYN ARION SOCIETY, Mr. ARTHUR CLAASSEN, Conductor.

#### COURSES OF INSTRUCTION IN THE GERMAN LANGUAGE AND LITERATURE

By Prof. WILLIAM ADDISON HERVEY, A.M., of Columbia University:

1. A Course in Elementary German; sixty sessions of one and one-half hours each.
2. Intermediate Course in German; thirty sessions of two hours each.
3. Advanced Course in German: Selected Works of Goethe, Schiller, and Lessing; thirty sessions of two hours each.

#### THE ORIENTAL SECTION.

I. A Course of Six Lectures on "Persia and Central Asia, their Literature and Civilization," illustrated by lantern photographs, by Prof. A. V. W. JACKSON, Ph.D., L.H.D., of Columbia University, as follows:

*Oct. 3—"Caravan and Cavalcade, or Journeys in the Land of the Lion and the Sun."*

*Oct. 10—"Relics of Past Splendor; the Palaces, Inscriptions and Tombs of Ancient Persian Kings."*

*Oct. 17—"Literary Monuments of Persian Ages Past."*

*Oct. 24—"Modern Persian Poetry."*

Nov. 15—"From the Caspian to Bokhara and Russian Turkestan."

Nov. 22—"Samarkand, the Capital of Tamerlane the Great."

## DEPARTMENT OF PHILOSOPHY

Prof. EDWARD HOWARD GRIGGS, M.A., L.H.D. *President*

Prof. FREDERICK W. OSBORN, M.A. *Vice-President*

H. DELMAR FRENCH, M.A. *Secretary.*

### *Executive Committee*

Prof. EDWARD H. GRIGGS, M.A. Rev. ALBERT J. LYMAN, D.D.

Prof. FRED'K W. OSBORN, M.A. Rev. L. MASON CLARKE, D.D.

WENDELL T. BUSH, A.M. Rev. JOHN HOWARD MELISH

H. DELMAR FRENCH, M.A. Prof. BRAINERD KELLOGG, LL.D.

Prof. JESSE D. BURKS Miss SARAH E. SCOTT, B.A.

Prof. E. N. HENDERSON Miss A. E. WYCKOFF, B.A.

Miss MARY A. DAVENPORT

The Department of Philosophy was organized May 23d, 1900, with a membership of one hundred and fifty. It now numbers one hundred and thirty-eight. During the year the meetings have been as follows:

I. A Course of Six Lectures on "Leaders of Great Movements in Modern Thought," by Prof. FREDERICK J. E. WOODBRIDGE, A.M., LL.D., of Columbia University, on Wednesday evenings, as follows:

Feb. 15—"Spinoza, and the Search for the Permanent Good."

Mar. 1—"Berkeley, and the Universe of Spirit."

Mar. 8—"Hume; or, Skepticism and the Practical Life."

Mar. 15—"Kant: the Mind Central in Nature."

Mar. 22—"Spencer, and the World of Law."

Mar. 29—"Current Tendencies: The Outlook."

II. A Course of Six Lectures on "The Philosophy of the Personal Life," by Prof. EDWARD HOWARD GRIGGS, A.M.,

L.H.D., President of the Department, on Monday afternoons, as follows:

*Apr. 3—"The Aim of Life."*  
*Apr. 10—"The Path of Life."*  
*Apr. 17—"The Problem of Moral Failure."*  
*Apr. 24—"The Vocation."*  
*May 1—"The Personal Relations."*  
*May 8—"The Use of the Margin."*

III. A Special Course on "The Aim, Scope and Methods of Moral Education," thirty sessions of one hour each, was conducted by Prof. EDWARD HOWARD GRIGGS, A.M., L.H.D.

IV. A Special Lecture on "The Simple Life," by the Rev. CHARLES WAGNER, of Paris, France, on Tuesday evening, November 15, in Association Hall.

### DEPARTMENT OF PHOTOGRAPHY

SAMUEL HOLDEN	President
PERCY G. FARQUHARSON	Vice-President
JOSEPH L. HITZ	Recording Secretary
WILLIAM E. MACNAUGHTON	Corresponding Secretary
JAMES H. KELLY	Treasurer

*Executive Committee and Committee on Rooms and Appliances.*

SAMUEL HOLDEN, *Chairman*

PERCY G. FARQUHARSON	JAMES W. KENT
JOSEPH L. HITZ	JAMES MCKENDRICK
WILLIAM E. MACNAUGHTON	LANDON GURLITZ
JAMES H. KELLY	W. G. LEVISON
WILLIAM B. COLSON	HENRY L. UNDERHILL
WILLIAM A. BOGER	JAMES E. UNDERHILL
RICHARD M. COIT	WILLIAM T. WINTRINGHAM
C. M. SHIPMAN	EDWIN T. ROSS

ROBERT B. MONTGOMERY

*Committee on Exhibitions*

W. M. E. MACNAUGHTON, <i>Chairman</i>	
JAS. W. KENT	SAMUEL HOLDEN
ROBT. B. MONTGOMERY	PERCY G. FARQUHARSON
	JAS. E. UNDERHILL

*Committee on Lectures and Lantern Slides*JAMES W. KENT, *Chairman*

PERCY G. FARQUHARSON

LANDON GURLITZ

HENRY L. UNDERHILL

WM. B. COLSON

*House Committee*JAMES H. KELLY, *Chairman*

R. M. COIT

E. T. ROSS

*Committee on Brooklyn and Long Island Slides*ROBERT B. MONTGOMERY, *Chairman*

JAS. MCKENDRICK

C. M. SHIPMAN

The Department of Photography was organized March 26, 1889, with thirty-four members. The present membership is five hundred and five. The lectures, conferences and meetings during the past season have been as follows:

## I. Single lectures, illustrated by lantern photographs:

Nov. 18—Informal lecture on "California, the Land of Sunshine," by Mr. S. A. BRIGGS, of Brooklyn.

Dec. 16—Lecture on "True Camp Life in the North Woods," by Mr. H. E. BEDFORD, of Brooklyn.

Jan. 7—Lecture on "The Seasons in Photography," by Mr. RUDOLF EICKEMEYER, JR., of New York.

May 9—Lecture on "Picturesque and Historic Hudson," by Mr. KENNETH BRUCE, of Brooklyn.

## II. The following lectures, all illustrated by lantern photographs, were given in conjunction with the Department of Geography:

Oct. 1—"Labrador and the Expedition into the Interior of Labrador in 1903-'04," by Mr. DILLON WALLACE, of New York.

Nov. 4—"Mt. McKinley and the Expedition of 1903," by FREDERICK A. COOK, M.D., of Brooklyn.

Nov. 11—"California and the Yosemite Valley," by Mr. HENRY G. PEABODY, of Boston.

*Dec. 29*—"The Canadian Alps," by Prof. CHARLES E. FAY, A.M., of Tufts College.

*Jan. 14*—"Perilous First Ascents in British Columbia and Alberta," by Prof. HERSCHEL C. PARKER, Ph.D., of Columbia University.

*Feb. 3*—"The Coast of Labrador," by Miss ISABEL ROGERS EDGAR, of Philadelphia.

*Mar. 9*—"Famous Capitols and Castles of the Danube," by the Rev. ROLAND S. DAWSON, of Brooklyn.

*May 16*—"The Tyrolean Alps and the Tyrolese," by Prof. HENRY E. NORTHRUP, A.M., of the Polytechnic Institute.

*May 22*—"Mt. Washington, and the White Mountains in Midwinter," by Prof. HERSCHEL C. PARKER, Ph.D., of Columbia University.

III. A series of three lectures on European Cities, by Prof. HENRY E. NORTHRUP, A.M., of the Polytechnic Institute, on Tuesday evenings, as follows:

*Dec. 13*—"Modern Berlin."

*Dec. 20*—"Munich and the Bavarian Alps."

*Dec. 27*—"Vesuvius and the Bay of Naples."

IV. The following conferences were held:

*Oct. 28*—"The Carbon Process," conducted by Mr. HARRY COUTANT.

*Nov. 25*—"Demonstration of the American Platinum Paper," by a representative of the EASTMAN KODAK Co.

*Jan. 27*—"Bromide Enlarging," conducted by Mr. WILLIAM B. COLSON, President of the Department.

*Feb. 24*—"The Gum-Bichromate Process," conducted by Messrs. JAMES W. KENT and HENRY L. UNDERHILL.

V. The following exhibitions were held:

*Nov. 11-18*—Autumn Exhibition of a Loan Collection of Bromide Enlargements, the work of Messrs. BOGER, COLSON, FARQUHARSON, GURLITZ, HOLDEN, KENT, MACNAUGHTON, MONTGOMERY, SCRIMGEOUR, and other members.

Dec. 9-16—Exhibition of a Loan Collection of Artistic Photographic Prints, the work of Messrs. RUDOLF EICKE-MEYER, JR., and CHARLES I. BERG, of New York.

## VI. THE FIFTEENTH ANNUAL EXHIBITION.

The Fifteenth Annual Exhibition of Photographic Prints and Lantern Slides was held at the Art Galleries, 174 Montague Street, from April 29 to May 6, inclusive. The following members exhibited photographic work: WILLIAM ARNOLD, JAMES BARCLAY, WILLIAM A. BOGER, RICHARD M. COIT, W. B. COLSON, WILLIAM H. COUGHLIN, A. WENTWORTH COOK, P. G. FARQUHARSON, JAMES H. FERGUSON, ARTHUR H. FLINT, PERCY G. B. GILKES, LANDON GURLITZ, HOWARD HAMMITT, JOSEPH L. HITZ, SAMUEL HOLDEN, MYERS R. JONES, JAMES H. KELLY, JAMES W. KENT, WALLACE GOOLD LEVISON, STARKS W. LEWIS, W. E. MACNAUGHTON, A. B. MANN, JAMES MCKENDRICK, DR. JOHN MERRITT, W. MEYER, HENRY BREWSTER MINTON, M.D., R. B. MONTGOMERY, HENRY HOYT MOORE, HENRY S. REDFIELD, EDWIN T. ROSS, ARCHIBALD C. SCRIMGEOUR, HARRY A. SHIPLEY, C. M. SHIPMAN, N. E. SPAULDING, H. L. UNDERHILL, JAMES E. UNDERHILL, WILLIAM T. WINTRINGHAM, J. S. WITMER, JR.

The total number of exhibitors was 38, and the total number of exhibits was 268.

The Board of Judges consisted of Messrs. PIRIE MACDONALD, BENJAMIN LANDER, and SADAKICHI HARTMANN.

The awards were:

### ANIMAL STUDIES

First, W. T. WINTRINGHAM, "Two Fine Dogs" (258); second, WILLIAM ARNOLD, "Ducks" (2).

### FIGURE STUDIES

First, LANDON GURLITZ, "Child and Dog" (87); second, P. G. FARQUHARSON, "Italian Women" (44).

## GENRE

First, JAMES W. KENT, "Two Boys Fishing" (141); second, WILLIAM B. COLSON, "On the Farm" (28); honorable mention, ARTHUR H. FLINT, "Launching the Seine Boat" (73).

## LANDSCAPES

First, SAMUEL HOLDEN, "The Street—Evening" (102); second, W. A. BOGER, "Three Trees" (19), which took the first prize at the American Salon last June; honorable mention, R. B. MONTGOMERY, "Wheat Field in Autumn" (195).

## MARINES

First, JAMES E. UNDERHILL, "Sun and Fog" (251); second, SAMUEL HOLDEN, "In the Harbor" (111); honorable mention, MYERS R. JONES, "Canal Scene, Rotterdam" (115).

## PORTRAITS

Honorable Mention, JAMES W. KENT, "The Young Engineer" (138), a cunning boy playing with a train of cars.

## MISCELLANEOUS

Including those not in other divisions—First, JAMES E. UNDERHILL, "Against Storm and Tide" (248); second, WILLIAM T. WINTRINGHAM, "Water Lily" (262); honorable mention, STARKS W. LEWIS, "A Tug, Seen from Wall Street Ferry Boat During a Blizzard" (145).

For the best individual exhibit the awards went to LANDON GURLITZ, SAMUEL HOLDEN and JAMES W. KENT in order as named, and for the best individual picture, to JAMES W. KENT.

Exhibition Committee—JAMES W. KENT, W. E. MACNAUGHTON, LANDON GURLITZ, ROBERT B. MONTGOMERY, SAMUEL HOLDEN and P. G. FARQUHARSON.

Besides the foregoing lectures, the following Special

Courses were given under the joint auspices of this Department and the Department of Geography, under which they are fully described:

VII. Four Courses of Lectures, as follows:

1. A Course of Six Lectures, illustrated by lantern photographs and motion pictures, by Mr. DWIGHT L. ELMENDORF, on Saturday afternoons and evenings, October 15, 22 and 29, and November 5, 12 and 19.
2. A Course of Six Lectures, illustrated by lantern photographs, by Mr. GARRETT P. SERVISS, on Saturday afternoons and evenings, January 21 and 28, February 4, 11, 18 and 25.
3. A Course of Five Lectures, illustrated by lantern photographs and motion pictures, by Mr. BURTON HOLMES, on Wednesday afternoons and evenings, March 22 and 29, and April 5, 12 and 19.
4. A Course of Two Afternoon and Two Evening Lectures, illustrated by lantern photographs and motion pictures, by Mr. DWIGHT L. ELMENDORF, Saturdays, April 22 and 29.
5. Lecture by the Rev. E. WARREN CLARK, Thursday afternoon, March 16, illustrated by lantern photographs.
6. Lecture by the Rev. ROLAND S. DAWSON, of Brooklyn, Saturday afternoon and evening, December 31.

VIII. A COLLECTION OF PHOTOGRAPHS OF LONG ISLAND. The Department is now, and has been for some years past, engaged in making a collection of lantern slide photographs of Brooklyn, its vicinity, and Long Island, from Fort Hamilton to Montauk Point. This collection, deposited at the Museum Building, now numbers upwards of four hundred and fifty. Contributions to this collection are invited and will be welcomed from *all* who are interested in the scenery, history, architecture, geology or inhabitants of this Borough or of Long Island. The Chairman of the Committee in charge of this Collection for the coming year is Mr. ROBERT B. MONTGOMERY, 164 Lafayette avenue, Brooklyn.

IX. The Department of Photography is to be congratulated upon the excellent facilities for work that have been provided for it, and for the valuable provisions that have been made for the instruction and enjoyment of all its members.

The Department has fitted up and furnished a suite of rooms at 201 Montague street, next door to the Brooklyn Library, for the exclusive use of its members. The suite includes a large studio room, 25x32 feet, which is provided with a good skylight, 10x14 feet, and is excellently adapted for studio photography; a dark room, provided with all the accessories necessary for the development of photographs, and an enlarging room, with good north light. The rooms contain appliances adapted to the best work in photography.

Members of the Department who desire to make practical use of these rooms or of any of the apparatus belonging to the Department, can do so by the payment of the small fee of one dollar and fifty cents (\$1.50) per year. Applications for the use of the rooms and apparatus should be made by mail to the Chairman of the House Committee, Department of Photography, 201 Montague street.

The meetings at the Department Rooms are open to all of the Members of the Department. The reading room contains the best current periodicals on photography.

A Tisdell Lantern has been provided for use by the Members of the Department, and a new Beseler Electric Lamp has been fitted to the Lantern and supplied with electric current.

The Department holds meetings of its members in its rooms on Friday evenings, at eight o'clock, from October to May, inclusive. These meetings are occupied by short papers on the technique of Photography and on new methods and devices; by conferences on matters of scientific or artistic interest, and by exhibits of lantern slides, negatives and prints.

## DEPARTMENT OF PHYSICS.

Prof. JOHN S. MCKAY, Ph.D. *President*  
 Prof. WILLIAM C. PECKHAM, M.A. *Vice-President*  
 RUDOLPH SELDNER, Ph.B. *Secretary*

*Executive Committee*

Prof. JOHN S. MCKAY, Ph.D. RUDOLPH SELDNER, Ph.B.  
 Prof. WM. C. PECKHAM, M.A. J. P. WINTRINGHAM  
 Prof. SAMUEL SHELDON, Ph.D. WALLACE GOOLD LEVISON, B.Sc.  
 Prof. E. R. VON NARDROFF, Ph.D. Prof. ALBERT W. AREY  
 WALLACE P. GROOM WILLIAM CLINTON BURLING  
 DOUGLAS BURNETT, B.S.

The Department was organized in May, 1888, with thirty-six members. The present membership is one hundred and fifty-three.

The lectures given during the past season have been as follows:

I. A Course of Ten Lectures on "Light," by Prof. ROBERT W. WOOD, of Johns Hopkins University, including results of Professor Wood's recent discoveries in Physical Science; illustrated by experimental demonstrations, on Monday evenings, as follows:

- Nov. 14—"The Propagation of Light."
- Nov. 21—"The Reflection and Polarization of Light."
- Nov. 28—"The Refraction and Dispersion of Light."
- Dec. 5—"The Interference of Light."
- Dec. 12—"Diffractions, Gratings and Zone Plates."
- Dec. 19—"Polarization and Double Refraction."
- Jan. 9—"Diffraction of Light."
- Jan. 16—"Polarization and Double Refraction."
- Jan. 23—"The Effects of Magnetism on Light."
- Jan. 30—"Modern Theories and Future Work."

II. A Course of Six Lectures on "Modern Views of Electricity," illustrated by experimental demonstrations, by Prof. E. R. von NARDROFF, Ph.D., of Erasmus Hall High

School, on Monday evenings, beginning Oct. 3. These lectures were given in conjunction with the Department of Electricity, under which they are fully described.

III. A Course of Ten Lectures on "Matter, Electricity and Radiation in the Light of Recent Discoveries," illustrated by lantern photographs and experimental demonstrations, by Prof. JOHN S. MCKAY, Ph.D., President of the Department, on Saturday afternoons, at the Central Museum, as follows:

*Mar. 4*—"Mass and the Molar Properties of Matter; Inertia and Motion."

*Mar. 11*—"The Kinetic Theory of Matter, or the Motion of Molecules and Atoms."

*Mar. 18*—"The New Units of Matter, Ions and Electrons; Ionization and Cathode Rays."

*Mar. 25*—"The Disintegration of Matter, or the Phenomena of Radio-Activity."

*Apr. 1*—"Electrons at Rest, or the Phenomena of Electrostatics."

*Apr. 8*—"Electrons in Motion, or the Phenomena of Electric Currents."

*Apr. 15*—"Magnetism, or the Energy of Ether Whirls."

*Apr. 22*—"Sound Waves, or the Energy of Vibrating Masses."

*Apr. 29*—"Ether Waves, or the Energy of Vibrating Electrons."

*May 6*—"Luminescence, or the Phenomena of Fluorescence and Phosphorescence."

IV. Other Lectures on Physics or on some branch of Physical Science are announced under the Departments of Electricity, Engineering, and Chemistry. The Department of Physics joined with these Departments in some portions of their work during the year.

V. Among the means of illustrating the lectures of the Department and of the Institute are a Clark electric arc lamp for use in the large Hawkridge lantern, and five Beseler arc lamps for use in the five Tisdell lanterns. In fully ninety-five per cent. of the illustrated lectures given during the year, the electric light has been used in the lanterns in preference to the lime light. The collection of lantern slides has been increased during the past twelve months by the manufacture of about one hundred for the use of the Departments.

Additions to the apparatus of the Department include a Waite and Bartlett Static Machine with twelve revolving glass plates and numerous attachments.

#### DEPARTMENT OF POLITICAL SCIENCE

Hon. JOHN A. TAYLOR	<i>President</i>
Pres. CHARLES H. LEVERMORE, Ph.D.	<i>Vice-Presidents</i>
Pres. FREDERICK W. ATKINSON, Ph.D.	
FRANCIS H. LUDLOW, B.A.	<i>Secretary</i>

##### *Executive Committee*

Hon. JOHN A. TAYLOR	Pres. CHAS. H. LEVERMORE, Ph.D.
HARRINGTON PUTNAM	STEPHEN P. STURGES
Hon. FREDERICK W. HINRICHES	CONRAD V. DYKEMAN
Pres. FREDERICK W. ATKINSON, Ph.D.	FRANCIS H. LUDLOW, B.A.
BENJAMIN F. SEEVER	CHARLES CLAGHORN, M.A.
Mrs. S. SHEPPARD BRYAN	GEORGE FREIFELD
Prof. H. DELMAR FRENCH, M.A., Litt.D.	

The Department of Political Science was organized on December 17, 1889, with one hundred and sixteen members. The present membership is seven hundred and fifty-eight. The work of the Department is under the general direction of the Executive Committee. The meetings and work during the past year have been as follows:

#### I. A Course of Five Lectures on "The Problem of

Monopoly," by Prof. JOHN B. CLARK, Ph.D., LL.D., of Columbia University, on Tuesday evenings, as follows:—

*Sept. 27*—"The Growth of Corporations."

*Oct. 4*—"Natural Checks on the Power of Corporations; the Anti-Trust Laws."

*Oct. 11*—"Organized Labor and Monopolies."

*Oct. 18*—"Railroad Monopolies."

*Oct. 25*—"Municipal Activities and Government Monopolies."

II. A Course of Six Lectures on "Social Forces in the Victorian Novel," by LESLIE W. SPRAGUE, A.M., of Montclair, N. J., on successive Tuesday afternoons, beginning October 4. These lectures were given in conjunction with the Department of Philology, under which they are fully described.

III. A Course of Six Lectures on "Leaders of Thought, and Problems in the Orient," by TOYOKICHI IYENAGA, Ph.D., of the University of Chicago, on Monday evenings, as follows:

*Nov. 14*—"The East and the West."

*Nov. 21*—"Rise of Japan: Her Place in the Orient."

*Nov. 28*—"Buddha and His Teachings."

*Dec. 5*—"Confucius and His Teachings."

*Dec. 12*—"The Missionary Question in China."

*Dec. 19*—"The War and the Powers."

IV. A Course of Six Lectures on "Steps Toward Democracy," by JOHN GRAHAM BROOKS, Ph.D., President of the American Social Science Association, on Tuesday evenings, as follows:

*Jan. 3*—"Shelley's Ideal Commonwealth."

*Jan. 10*—"Ibsen: The Poet as Social Critic."

*Jan. 17*—"The Social Plays of Ibsen" (I.).

*Jan. 24*—"The Social Plays of Ibsen" (II.).

*Jan. 31*—"Gladstone's Contribution to the Social Question."

*Feb. 7*—"The Boldest Experiment in Democracy."

V. A Course of Six Lectures on "The History of Liberty," by Prof. JOHN C. POWYS, A.M., of Cambridge University, England, on Wednesday evenings, as follows:

*Jan. 4*—"The Athenian Republic."

*Jan. 11*—"The Roman Republic."

*Jan. 18*—"The Florentine Republic."

*Feb. 1*—"The American Republic."

*Feb. 8*—"The French Republic."

(Tues.) *Apr. 4*—"The Republic of the Future."

VI. A Course of Six Lectures on "The Progress Made by Women," by Mrs. Carrie Chapman Catt, of New York, on Tuesday evenings, as follows:

*Feb. 14*—"The Corner Stone."

*Feb. 21*—"Primitive Women."

*Feb. 28*—"The Evolution of the Family."

*Mar. 7*—"The Revival of Learning Among Women in the Fifteenth Century."

*Mar. 14*—"Women and the World's Work."

*Mar. 21*—"The Past, Present and Future."

VII. A Course of Six Lectures on "The Evolution of the Anglo-Saxon Race, by Prof. FRANKLIN H. GIDDINGS, Ph.D., LL.D., of Columbia University, on Monday evenings, as follows:

*Feb. 20*—"Britain and Its Earliest Inhabitants."

*Feb. 27*—"The Celts and Their Civilization."

*Mar. 6*—"Saxons, Danes and Normans."

*Mar. 13*—"The Structure of English Society."

*Mar. 20*—"English Liberty."

*Mar. 27*—"The English-speaking People and the World."

### VIII. Single Addresses:

*Nov. 29*—"International Ethics and Their Application to the Russo-Japanese Conflict," by the Rev. LYMAN ABBOTT, D.D., LL.D.

*Feb. 16*—"The Civic Duties of Young Men," by the Rev. JOHN HOWARD MELISH, Rector of Holy Trinity Church."

*Apr. 15*—"Arbitration and International Peace," by the Hon. OSCAR S. STRAUS, LL.D., Ex-Minister to Turkey, Member of the Permanent Court of Arbitration at The Hague.

*May 11*—"Some Aspects of Jewish Nationalism," by J. L. MAGNES, Ph.D., Rabbi of Temple Israel, Brooklyn.

IX. A Special Course of Instruction in "American History and Civics," was given under Prof. J. P. GORDY, Ph.D., LL.D., of New York University, on Tuesday evenings. This course consisted of thirty sessions of one hour each, beginning October 11.

X. A Special Course of Instruction in "Theoretical and Practical Economics," by Miss JESSIE WALLACE HUGHAN, A.M. This course consisted of thirty sessions of one hour each, beginning October 14.

### DEPARTMENT OF PSYCHOLOGY

Prin. LASALLE H. WHITE, Ph.D.	<i>President</i>
Prof. FREDERICK W. OSBORN, M.A.	<i>Vice-Presidents</i>
Prin. FREDERIC L. LUQUEER	
Miss SARAH E. SCOTT, M.A.	<i>Secretary</i>

#### *Executive Committee*

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Prof. BRAINERD KELLOGG, LL.D.	Prin. FREDERIC L. LUQUEER
Miss SARAH E. SCOTT, M.A.	STUART H. ROWE, Ph.D.
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Miss A. E. JOHNSON	Miss FREDA M. BRUNN, A.B.
Miss EDNA PATEMAN	Miss JOSEPHINE E. HODGDON
Miss GERTRUDE W. MITCHELL	Miss MARY MOLOW

The Department of Psychology was organized April 29, 1890, with sixty-eight members. The present membership is three hundred and fifty-one.

Under the auspices of the Department the following conferences were held:

I. A Series of Conferences, under the auspices of the Section on Educational Psychology, Mrs. FRANKLIN W. HOOPER, Chairman, was held in conjunction with the Department of Pedagogy, under which the conferences are described.

II. A Series of Six Lectures on "The Beginnings of Mind," illustrated by lantern photographs and experimental demonstrations, by Prof. HERBERT S. JENNINGS, of the University of Pennsylvania, on Tuesday evenings. These lectures were given in conjunction with the Department of Zoölogy, under which they are fully described.

## DEPARTMENT OF ZOÖLOGY

WILLIAM C. BRAISLIN, M.D.	<i>President</i>
FRANK H. AMES	<i>Vice-President</i>

*Executive Committee*

Prof. JOHN MICKLEBOROUGH, Ph.D.	JOHN J. SCHOONHOVEN, B.A.
WILLIAM C. BRAISLIN, M.D.	HENRY C. BURTON
GEORGE K. CHERRIE	EDWARD A. BEHR
GEORGE P. ENGELHARDT	FRANK H. AMES
FRANK E. JOHNSON	MISS CLARA C. CALKINS
FRANKLIN W. HOOPER, M.A.	ROY S. RICHARDSON, B.S.
	HENRY E. CHAPIN, Ph.D.
	Miss ANNA B. GALLUP, B.S.

The Department of Zoölogy was organized on February 12, 1889, with twenty-two members. The present membership is one hundred and nine. The regular meetings during the year have been as follows:

I. Single Lectures; all illustrated by lantern photographs.

*Dec. 1*—"Wild Life in the Vicinity of New York," by Mr. ERNEST HAROLD BAYNES, of Boston.

*Dec. 27*—"The Public Aquarium and its Management," by Mr. CHARLES H. TOWNSEND, Director of the New York City Aquarium.

*Jan. 5*—"Germ Cells in Relation to Inheritance and Evolution," by Prof. EDWIN G. CONKLIN, Ph.D., of the University of Pennsylvania.

*Feb. 2*—"Ancient Birds and their Associates," by Mr. FREDERICK A. LUCAS, Curator-in-Chief of the Museums.

*Apr. 6*—"The Work of the Station for Experimental Evolution Established at Cold Spring Harbor by the Carnegie Institution of Washington," by Prof. CHARLES B. DAVENPORT, Ph.D., Director of the Biological Laboratory of the Institute and of the Station for Experimental Evolution of the Carnegie Institution.

*Apr. 11*—"The Ecology of Some Microscopic Forms of Marine Life," by Mrs. CHARLES B. DAVENPORT, of the Biological Laboratory, Cold Spring Harbor.

*May 15*—"The Alaskan Salmon," by TARLETON H. BEAN, Ph.D.

*May 18*—"Fossil Hoofed Animals from Patagonia," by Prof. W. B. SCOTT, Ph.D.

*May 19*—"The Humming Bird's History," by Prof. S. C. SCHMUCKER, Ph.D., of West Chester, Pa.

II. Conferences:

*Dec. 15*—"The Gulls and Terns of Long Island," led by Mr. GEORGE K. CHERRIE, Curator of Ornithology, Central Museum.

*Jan. 19*—"Art in Taxidermy," led by Mr. J. W. CRITCHLEY, Taxidermist of the Museum.

*Feb. 16*—"Collecting Reptiles in Southwestern Utah," led by Mr. GEORGE P. ENGELHARDT, of the Museum.

III. A Course of Six Lectures on "The Beginnings of Mind," illustrated by lantern photographs and experimental demonstrations, by Prof. HERBERT S. JENNINGS, of the University of Pennsylvania, on Tuesday evenings, as follows:

*Mar. 28*—"Physical Theories of Behavior in the Lowest Organisms. The Behavior of Amoebae."

*Apr. 4*—"The Behavior of Bacteria and Infusoria."

*Apr. 11*—"The Behavior of Paramecium and of other Infusoria. The Method of Trial by Error. Modifiability of Behavior of Protozoa."

*Apr. 18*—"Behavior of Certain Lower Metazoa Compared with that of the Protozoa Part Played by the Nervous System."

*Apr. 25*—"Factors and Theories of Behavior in the Lower Organisms. The Tropism Theory. Changes in Physiological Conditions as Factors in Behavior. The Method of Trial and Error and its Implications."

*May 2*—"Essential Characteristics of Behavior in Lower Organisms. Relation to the Behavior of Higher Animals and Man. The Question of Consciousness: The Development of Intelligence."

## SECTION ON PHILATELY

### *Officers*

H. A. TALBOT *President*

Dr. THADDEUS P. HYATT *Vice-President*

JOHN D. CARBERRY *Secretary and Treasurer*

GEORGE W. RING *Curator and Librarian*

### *Executive Committee*

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JOHN D. CARBERRY *A. KRASSA*

GEORGE W. RING *P. F. BRUNER*

DAVID MINALDI *R. R. BOGERT*

This Section was organized September 16, 1898, by the Members of the Long Island Philatelic Society of Brooklyn. The business meetings of the Section, lectures, conferences, discussions and exhibitions are held on the Fourth Friday evening of each month, from October to May, inclusive.

Philatelic lectures, illustrated with handsomely colored lantern photographs, by means of which each stamp, after being thrown upon the screen, is shown over two feet in height, bringing out clearly every variation in design, perforation, grille, secret mark, etc., form an entirely new and interesting feature of the work of the Philatelic Section.

The following lecture was given:

Lecture by Dr. Thaddeus P. Hyatt, ex-President of this Section, on "Past, Present and Future of the Postal Service." Friday, November 25th, at 8.15 P. M.

#### DONATIONS TO THE LIBRARY OF THE SECTION

From Mr. WALLACE GOOLD LEVISON—Unbound Pamphlets and Magazines.

From ALVAH DAVISON—A number of Bound and Unbound Volumes of Philatelic Literature.

From BOSTON PHILATELIC SOCIETY—Bound Volume, "The Stamps of Siam," by Mr. ALEXANDER HOLLAND.

From U. S. GOVERNMENT—A number of Bound Public Documents and Works concerning the Post Office Department.

From B. L. DREW & Co., Boston—A number of priced Auction Catalogues.

From the J. W. SCOTT Co., Ltd.—Priced Catalogues.

From SCOTT STAMP AND COIN Co.—Priced Auction Catalogues.

The following Philatelic Magazines have been received regularly:

Stanley Gibbon's Monthly Journal, London.  
 Philatelic Journal of Great Britain.  
 Mekeel's Weekly Stamp News, Boston.  
 American Journal of Philately, New York.  
 Virginia Philatelist, Richmond, Va.  
 Anales de la Sociedad Filatelica de Chile, Santiago, Chile.  
 Australian Philatelist.

The Section needs more reference books on Philatelic subjects. Bound volumes of Philatelic Works from friends of the Section would be appreciated.

#### DONATIONS TO THE COLLECTION DURING THE YEAR

Important contributions to the Collection of the Stamps of the world for the Museum were made during the year by the following governments:

United States, Proofs of all Postage Stamps issued by the Government from 1847 to 1904, Surinam, Bulgaria, Russia, Japan, British North Borneo and Fiji Islands.

The total number of Stamps now in the Collection is upwards of 10,000.

#### CASES FOR THE MUSEUM COLLECTION

It is proposed to construct mahogany cases, containing twenty-five drawers 2 feet 4 inches by 2 feet one-half inch in size (holding six sheets each, or 150 sheets in all) on which it is estimated approximately 5,000 stamps can be mounted. The drawers will be covered with glass, which fits closely to the stamps to prevent curling, and so designed as to allow them to be pulled out a certain distance to expose the stamps to view at the same time locked to prevent abstraction. Access can be had to these drawers only by the Curators.

## INFORMATION

Any special information concerning the Section on Philately, its work, membership, etc., may be had by addressing the Secretary thereof, Mr. JOHN D. CARBERRY, 999a Lafayette avenue, Brooklyn, N. Y.

TABLE SHOWING THE MEMBERSHIP OF THE  
INSTITUTE

1904—1905

Associate Members.....	5,300
Life Members.....	337
Permanent Members.....	60
Corresponding Members .....	242
Honorary Members.....	23
Fellows .....	29
Patrons (6 deceased).....	6
Persons who have resigned, but were for a time on the Roll, during 1904-1905.....	296
<hr/>	
	6,293
New Members.....	463
Resignations .....	540
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Loss.....	77

TABLE SHOWING THE MEMBERSHIP OF THE  
DEPARTMENTS.

Departments	1903-1904	1904-1905	Order of size
ARCHÆOLOGY .....	144	143	20
ARCHITECTURE .....	243	222	14
ASTRONOMY .....	265	254	10
BOTANY .....	335	315	9
CHEMISTRY .....	207	197	16
DOMESTIC SCIENCE .....	196	202	15
ELECTRICITY .....	238	226	13
ENGINEERING .....	150	146	19
ENTOMOLOGY .....	52	52	26
FINE ARTS .....	984	942	3
GEOGRAPHY .....	371	372	7
GEOLOGY .....	148	141	21
LAW .....	246	248	11
MATHEMATICS .....	101	96	24
MICROSCOPY .....	122	111	22
MINERALOGY .....	102	93	25
MUSIC .....	2,161	2,114	1
PAINTING .....	236	229	12
PEDAGOGY .....	833	804	4
PHILOLOGY .....	1,371	1,367	2
PHILOSOPHY .....	138	150	18
PHOTOGRAPHY .....	525	505	6
PHYSICS .....	162	153	17
POLITICAL SCIENCE .....	783	758	5
PSYCHOLOGY .....	377	351	8
ZOÖLOGY .....	116	109	23
PHILATELY SECTION .....	55	51	27
	10,661	10,351	

# THE BIOLOGICAL LABORATORY

[Located at Cold Spring Harbor, L. I.]

## SIXTEENTH SEASON.

### BOARD OF MANAGERS

WILLIAM J. MATHESON	<i>Vice-President</i>
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A. AUGUSTUS HEALY	WALTER JENNINGS
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HENRY M. McCrackEN, LL.D.	Ph.D.
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WALTER B. JAMES, M.D.	JOHN H. J. STEWART
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C. W. WETMORE	COLGATE HOYT
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Prof. CHARLES B. DAVENPORT, Ph.D.	NICHOLAS MURRAY BUTLER, LL.D.
Prof. EDMUND B. WILSON, Ph.D.	ALFRED G. MAYER, S.D.
EDWARD THOMPSON	WILLIAM E. JONES
	FREDERIC A. LUCAS

### THE BOARD OF INSTRUCTION

CHARLES BENEDICT DAVENPORT, Ph.D., Director of the Station for Experimental Evolution (Carnegie Institution of Washington), <i>Director of the Laboratory.</i>
DUNCAN STARR JOHNSON, Ph.D., Assistant Professor of Botany, Johns Hopkins University. <i>In charge of Cryptogamic Botany.</i>
HENRY SHERRING PRATT, Ph.D., Associate Professor of Zoölogy, Haverford College. <i>In charge of Comparative Anatomy.</i>
HENRY EDWARD CRAMPTON, Ph.D., Professor of Zoölogy, Columbia University. <i>In charge of Embryology.</i>
Mrs. GERTRUDE CROTTY DAVENPORT, S.B., Past Instructor in Zoölogy, Kansas State University. <i>In charge of Microscopic Methods.</i>
FORREST SHREVE, A.B., Assistant in Botany, Johns Hopkins University. <i>In charge of Plant Ecology.</i>



THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72 x 36 FEET



THE DINING HALL AT THE BIOLOGICAL LABORATORY

WILLIAM MORTON WHEELER, Ph.D., Curator of Invertebrates, American Museum of Natural History. *Lecturer in Entomology.*

WILLIAM J. MOENKHAUS, Ph.D., Professor of Physiology, Indiana University. *Assistant in Zoölogy.*

DANA BRACKENRIDGE CASTEEL, Ph.D., University of Pennsylvania. *Assisting in Comparative Anatomy.*

ARTHUR HOUSTON CHIVERS, M.A., Harvard University, Instructor in Radcliffe, Harvard University. *Assisting in Botany.*

ROBERT S. BREED, Ph.D., Professor of Biology, Allegheny College. *Assisting in Zoölogy.*

MARY COE CHEDSEY, B.S., Assistant in Botany, Barnard College. *Assisting in Ecology.*

PERSONS, OTHER THAN INSTRUCTORS, ENGAGED PRIMARILY IN RESEARCH.

H. L. ALBERT, Professor of Biology, State Normal School, Cape Girardeau, Missouri. *Botany.*

EDITH M. BRACE, Professor of Biology, Western Maryland University. *Zoölogy.*

ELLA MARION BRIGGS, A.B. (Mt. Holyoke College), Teacher of Biology, High School, New Rochelle, N. Y. *Zoölogy.*

ESTHER FUSSELL BYRNES, Ph.D. (Bryn Mawr College), Teacher of Biology, Girl's High School, Brooklyn. *Zoölogy.*

ABIGAIL CAMP DIMON, A.M. (Bryn Mawr College), Teacher, Utica, N. Y. *Zoölogy.*

LOUIS ISRAEL DUBLIN, Ph.D. (Columbia University), Teacher, College of the City of New York, N. Y. City. *Cytology.*

WILLIAM DANA HOYT, M.A. (University of Missouri), Graduate Student, Johns Hopkins University. *Botany.*

WILLIAM S. LEATHERS, Professor of Biology, University of Mississippi. *Zoölogy.*

IVEY FOREMAN LEWIS, A.B., M.S. (University of North Carolina), Student, Johns Hopkins University, 906 McCulloh street, Baltimore, Md. *Botany.*

JAMES HOWARD McGREGOR, Ph.D. (Columbia University), Lecturer in Vertebrate Zoölogy, Columbia University, New York, N. Y. *Zoölogy.*

MABEL ELIZABETH SMALLWOOD, Teacher of Biology, High School, 430 W. Adams street, Chicago. *Zoölogy.*

MARY ISABELLE STEELE, M.A. (University of Missouri), Teacher of Biology, Central High School, Kansas City, Mo.

## STUDENTS IN THE SEVERAL COURSES

CHARLES ORVAL APPLEMAN, Ph.B. (Dickinson College), Teacher of Biology, Lombard College, Galesburg, Ill. *Botany 1.*

ELLEN KNAPP BRANDENBURG, B.S. (George Washington University), Teacher, English and History in Technical High School, 915 Front street, Washington, D. C. *Botany 1.*

ETHEL NICHOLSON BROWNE, Student, Woman's College of Baltimore, 510 Park avenue, Baltimore, Md. *Zoölogy 2.*

ELMA CHANDLER, A.B. (University of Michigan), Teacher of Botany in High School, 110 S. Channing street, Elgin, Ill. *Zoölogy 1,* *Botany 2.*

MARY COE CHEDSEY, B.S. (Teachers College, Columbia University), Teacher of Botany in Barnard College, Park Hill, Yonkers, N. Y. *Botany 1.*

ESTHER LAMB COX, B.L. (Swarthmore College), 1516 Linden avenue, Baltimore, Md. *Botany 2.*

ARTHUR KENT DEARBORN, Wesleyan University, Middletown, Conn. *Botany 1,* *Zoölogy 3.*

NEIL STANLEY DUNGAY, B.A. (University of Minnesota), Teacher of Science, High School, Marshall, Minn.

MARY ALICE GODDARD, B.S. (University of Michigan), Instructor in Botany, Michigan State Normal School. *Zoölogy 1,* *Botany 2.*

MAUDE CECIL GUNTER, Student at Woman's College, 519 N. Charles street, Baltimore, Md. *Zoölogy 2.*

HUGH ASBURY HACKETT, B.A. (Johns Hopkins University), Graduate Student, Johns Hopkins University, Cold Spring Harbor, N. Y. *Zoölogy 1,* *Botany 2.*

HELEN KNIGHT, Teacher in Calvert School, 1021 Cathedral street, Baltimore, Md. *Zoölogy 1,* *Botany 2.*

ELIZABETH SHERWOOD LUM, B.A. (Wellesley College), Teacher of Science, The Castle, Tarrytown, N. Y. *Zoölogy 1,* *Botany 1.*

CLARA JULIA LYNCH, B.L. (Smith College), Teacher, 420 S. Market street, Canton, Ohio. *Zoölogy 1,* *Botany 1.*

CLARENCE MARCY, Assistant in Biology, State Normal School, Bloomsburg, Pa. *Zoölogy 2,* *Botany 1.*

HOWARD N. MARCY, Student, State Normal School, Bloomsburg, Pa. *Zoölogy 1.*

HARRIS EDWARD PEARSONS, Student at Carleton College, Northfield, Minnesota. *Zoölogy 1.*

MAX RADIN, A.B. (College City of New York), Instructor, DeWitt Clinton High School, 844 Teasdale place, New York, N. Y.

**ASA ARTHUR SCHAEFFER, A.B.** (Franklin and Marshall College), Graduate Student, Johns Hopkins University, Baltimore. *Zoölogy 3.*

**WILLIAM THORNTON SMALLWOOD, B.S.** (Syracuse University), Teacher of Biology, High School, 7808 Union avenue, Chicago, Ill. *Zoölogy 1.*

**LEVI JOSEPH ULMER, Sc.B.** (Bucknell University), Department of Science, Williamsport High School, 423 Mulberry street, Williamsport, Pa. *Botany 1, Botany 2.*

**LOUISE ALBERTA WANDELL, A.B.** (Vassar College), Student, 157 Taylor street, Brooklyn, N. Y. *Botany 1.*

#### COURSES OF INSTRUCTION

- I **ZOÖLOGY 1.** "High School Zoölogy," under Dr. C. B. DAVENPORT and Dr. R. S. BREED, with some assistance from Dr. W. M. WHEELER.
- II **ZOÖLOGY 2.** "Comparative Anatomy," under Dr. H. S. PRATT and Dr. D. B. CASTEEL.
- III **ZOÖLOGY 3.** "Embryology," under Dr. H. E. CRAMPTON and W. J. MOENKHAUS.
- IV **ZOÖLOGY 4.** "Animal Bionomics and Variation," under Dr. C. B. DAVENPORT.
- V **BOTANY 1.** "Cryptogamic Botany," under Dr. D. S. JOHNSON and Mr. A. H. CHIVERS.
- VI **BOTANY 2.** "Ecology," under Mr. FORREST SHREVE.
- VII **BOTANY 3.** Seminar in "Ecology," under Mr. FORREST SHREVE.
- VIII **"Microscopic Methods,"** under Mrs. GERTRUDE C. DAVENPORT.

#### BIOLOGICAL CLUB

This Club has been formed for the presentation of the results of researches and for reviewing of recent biological literature. Recently addresses have been given by the following visiting naturalists:

Prof. M. A. BIGELOW, Teachers College, New York; Prof. C. L. BRISTOL, New York University; Prof. R. E. CALL, Children's Museum, Brooklyn Institute; Prof. H. W. CONN, Wesleyan University; Prof. A. DAVISON, Lafayette College; Prof. BASHFORD DEAN, Columbia University; Prof. R. E. DODGE, Columbia University; Dr. GEORG DUNCKER, Hamburg; JAMES H. EMERTON, Boston; Dr. H. H. FIELD, Concilium Bibliographicum, Zurich; Prof. J. S. KINGSLEY, Tufts College; Prof. F. E. LLOYD, Teachers College; Prof. GRAHAM LUSK, New York University Medical School; Dr. D. T. MACDOUGAL, New York Botanic Garden; Dr. A. G. MAYER, Museum, Brooklyn Institute; Prof. JAMES G. NEEDHAM, Lake Forest University; Prof. G. H. PARKER, Harvard University; Prof. JACOB REIGHARD, University of Michigan; Prof. EDWARD L. THORNDIKE, Columbia University; Prof. W. L. TOWER, University of Chicago; Dr. W. M. WHEELER, American Museum of Natural History, New York; Mr. GEORGE C. WHIPPLE, Brooklyn, and others.

#### PUBLICATIONS

The following publications, based in whole or in part on work done or material collected at Cold Spring Harbor, have been published since last year's report:

33. C. B. DAVENPORT.—Color Inheritance in Mice. *Science*, N. S. XIX, 110-114. Jan. 15, 1904.

34. W. J. MOENKHAUS.—The Development of the Hybrids between *Fundulus heteroclitus* and *Menidia notata*, with special reference to the behavior of the maternal and paternal chromatin. *The American Journal of Anatomy*, III, 29-65, Pls. I-IV. Mar. 31, 1904.

35. WILHELMINE M. ENTEMAN.—Coloration in *Polistes*. Publication of the Carnegie Institution of Washington, No. 19. 88 pp., 6 colored plates. 1904.



VIEW OF THE ESTUARY AND INNER HARBOR, LOOKING DOWN THE VALLEY. THE LABORATORIES STAND ON THE LEFT SIDE OF THE INNER HARBOR.

VIEW OF ROAD OVER DAM AT THE SECOND LAKE, TO ILLUSTRATE TYPICAL FOREST AND FRESH WATER CONDITIONS.  
GREAT OAK IN FOREGROUND.



36. MABEL E. SMALLWOOD.—The Salt-Marsh Amphipod—*Orchestia palustris*. Cold Spring Harbor Monographs, III.

37. ELLA M. BRIGGS.—The Life History of Case-Bearing Insects, I:—*Clamys plicata*. With one plate and Eleven text figures. Cold Spring Harbor Monographs, IV.

38. ABAGAIL C. DIMON.—The Mud Snail, *Nassa*. Cold Spring Harbor Monographs, V.

39. LOUIS I. DUBLIN.—The History of the Germ Cells in *Pedicellina Americana*. Annals of the New York Academy of Sciences, XVI, 1-60. Pls. I-III. 1905.

40. LOUIS I. DUBLIN.—On the Nucleoli in the Somatic and Germ Cells of *Pedicellaria Americana*. Biological Bulletin, VIII, 347-364. May, 1905.

41. CHARLES ZELENY.—Compensatory Regulation. Jour. of Experimental Zoology, II, 1-102, 27 text figures. April, 1905.

42. CHARLES ZELENY.—The Regeneration of a Double Chela in the Fiddler Crab (*Gelasimus pugilator*) in place of a normal single one. Biological Bulletin, IX, 152-155. August, 1905.

#### EQUIPMENT

Through the establishment of the Station for Experimental Evolution by the Carnegie Institution of Washington on the property adjacent to the Laboratory and under the charge of the Director of the Laboratory, the scientific importance of the community has been augmented. Here is maintained throughout the year a staff of workers devoted exclusively to experimental investigations in biology, including the breeding of animals and plants. The Station possesses a valuable reference library and collections accessible to investigators at the Laboratory. Arrangements have been perfected by which research may be done at the Laboratory at almost any time of the year.

## LIBRARY

The Library now receives regularly the publications of several divisions of the Department of Agriculture and the Reports of the New York State Museum. Through an arrangement recently entered into with the Institute Library, the Laboratory becomes a branch station of that Library, and thus acquires a service of great value. Workers at the Laboratory have access also to the library of the Carnegie Institution Station.

The following special gifts have been made to the Laboratory Library during the year:

ROBERT S. BREED.....	I pamphlet.
H. H. WILDER.....	I      "
W. L. TOWER.....	I      "

### CONTRIBUTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT

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**DEPARTMENTS IN ETHNOLOGY AND NATURAL SCIENCE**

**AMERICAN ENTOMOLOGICAL Co., 1040 DeKalb avenue,  
Brooklyn.**

Forty-six specimens of Butterflies new to collection.  
37 sp.

One hundred seventy-five (about) Beetles, Orthoptera,  
Dragonflies, etc.

Fifty specimens of Odonata.

**BANTA, A. M. State University, Bloomington, Ill.**

Twenty-five specimens of animals from caves, as per  
list.

**DAY, CHARLES L., Chin Lee, Arizona.**

Navajo bones from Chin Lee, Arizona.

**DENTON, SHERMAN F., Wellesley Farms, Mass.**

Twenty-six mounted fishes.

Twelve mounted fishes.

**GERRARD & SONS, E., 61 College place, London.**

Six skins of Birds of Paradise. Condon, Apteryx, two  
Argue Pheasants.

**KIBLER, PAUL, Trenton House, Asbury Park, N. J.**

Six nests of South American Wasps. Chartergus  
nidulans.

**MARKT & MARKT, New York City.**

Six Buchold mounts, and

Five microscopic slides.

**Ross COMPANY, SIDNEY, 48 Vesey street, N. Y.**

Fifty Riker mounts of native flowers.

**SCHLUTER, WILHELM, Halle am Salle.**

Skins of Hoopoe upupa epops.

WARD, C. H., Rochester, N. Y.

Cast of skull of Malay for comparison with Neanderthal man.

Cast of Cranium, *Pithecanthropus erectus*.

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester.

Seven specimens (skulls, etc.), illustrating characters of Marsupials or Reptiles.

Eight casts of fishes.

Sixteen specimens of minerals.

Specimens of volcanic products, obsidian, pumice, etc.

Twelve Australian mammals.

WORTHEN, CHAS. K., Warsaw, Ill.

Twelve Birds of Paradise.

Eight specimens of Great Horned Owls, showing variation.

Three mammal skins.

WARMBATH, J. S., Washington, D. C.

Three skins of Musk Oxen.

#### PURCHASES FOR DEPARTMENT OF FINE ARTS

##### MUSEUM COLLECTION FUND.

One oil painting, "Camels Feeding," by Edwin Lord Weeks.

OLCOTT, Dr. GEORGE N. Columbia University.

Sixteen pieces of ancient pottery, mainly prehistoric Italian.

Two pieces Italian ancient bronze.

Eleven terra-cotta beads, mainly Greek.

SPRAGUE & HATHAWAY, West Somerville, Mass.

Photographic enlargements from 5 x 7 negative, No. 56.

Series of 1903, North façade, left side portal, sculpture Reims.

Nine negatives and nine contact prints.

Five photographic enlargements from 5 x 7 negatives.

## WOODWARD MEMORIAL FUND.

Antique Roman gold jewelry.

## LOANS. DEPARTMENT OF FINE ARTS

BALDWIN, EDWIN, 253 West Forty-second street, N. Y.

One oil painting, "On the Thames," by Frank Meyers Boggs.

BENEDICT, H. H., 3 East Seventy-fifth street, N. Y.

Two oil paintings: "Le Ravin d'Optevoz," by Daubigny; "Children at Play," by A. Monticelli.

BUEK, G. H., 466 Classon avenue, Brooklyn.

Seventy-six water-color paintings by American artists.

CULIN, STEWART, Museum Building.

Oriental and other games, ceremonial objects, etc.

Chinese and Japanese porcelain.

EAKINS, THOMAS, 1729 Walnut street, Philadelphia.

One oil painting of Frank Hamilton Cushing.

HOLT &amp; CO., HENRY, 29 West Twenty-third street, N. Y.

One colored drawing of three fishes (Loaned for copying).

MOAK, CLAYTON L., 21-23 Maiden Lane, N. Y.

Fourteen pieces Chinese porcelain.

One piece Japanese porcelain.

One Japanese bronze box and five mounts.

OBIG, ADOLPH, "The Dakota," 1 West Seventy-second street, N. Y.

One oil painting, "Le Dechaumage des Champs," by H. S. Bisbing.

PUTNAM, W. A. and L. F. ABBOTT, 70 Willow street, Brooklyn.

One oil painting, "Waterloo Bridge," by Claude Monet.

VAN WYCK, Mrs. ALBERT, 98 Remsen street, Brooklyn.

Miscellaneous collection of Russian, Scandinavian and other art objects and ivory earrings.

## GIFTS. DEPARTMENT OF FINE ARTS

BANBURY, REV. J. J.

Thirteen wood and metal figures.

Nine pieces old porcelain.

One modern book.

BROOKLYN DAILY EAGLE, per Mr. Gilbert H. Evans.

Three negatives of the Museum.

CROXSON, MRS. MARY S.

Marble bust and pedestal, "Eve," by Hiram Powers.

DE SILVER, CARLL H., 43 Pierrepont street, Brooklyn.

Two Chinese porcelain vases and

Nine pieces of Japanese pottery.

Five Japanese ceramics with five teak stands.

GEDDES, PETER, 328 Clinton avenue, Brooklyn.

One oil painting, "On the Bosphorus," by F. A. Bridgeman.

GENUNG, CHARLES H.

CARLSON, EMIL.

HOWARD, HENRY.

CARRIGAN, WM. L.

One oil painting, "The Trio," by  
Herbert Denman, deceased.

HUSTED, MISS KATHERINE M., 157 Clinton avenue, B'klyn.

Illuminated copy of the Koran.

Thirteen pieces of old china.

PEABODY, GEORGE FOSTER, 28 Monroe place, Brooklyn.

One oil painting, "Autumn Oaks," Forest of Fontainebleau, by Paul Dougherty.

Two Japanese bronze vases dating about 1876, inlaid with gold and colored bronze. Raised and inlaid decoration.

PRATT, GEORGE D., 245 Clinton avenue, Brooklyn.

One oil painting, "The Hour of Prayer at the Moti Musjid, or Pearl Mosque, Agra," by Edwin Lord Weeks.

**SCHIEREN**, Hon. CHARLES A., 405 Clinton avenue, Brooklyn.  
One oil painting, "The Captive," by Blakelock.

**STEARNS**, SYLVESTER L., 510 Bedford avenue, Brooklyn.  
One oil painting, "Adoption of the Constitution," by  
J. B. Stearns.

**WELCHER**, Mrs. FANNIE AVERY, 183 Columbia Heights,  
Brooklyn.

Bronze group by Barye, "Theseus Slaying the Cen-  
taur."

**WOODWARD**, Col. ROBERT B., 118 Pierrepont street, B'klyn.  
Fifteen Japanese lacquers and one Yatake (ink horn) of  
shibuichi bronze.

Glass vase with remains of iron rings for suspension.

Ancient glass: One Rhyton shaped vase. Five strings  
ancient Roman beads.

#### GIFTS. SCIENTIFIC DEPARTMENTS

**ALLCHIN**, Dr. (through Mr. G. C. Brackett), London, Eng-  
land.

Seven "Plateau Flints."

**BEYER**, GUSTAV, 511 East 117th street, N. Y.  
One hundred and twelve specimens of Coleoptera from  
Low, Cal.

**BLUE MOUNTAIN FOREST ASSOCIATION** (through Austin  
Corbin).

One young Wild Boar. One Buffalo Calf.

**BRINSMADE**, Miss A., 166 Columbia Heights, Brooklyn.  
Eight specimens of shells.

**BRUNN**, JULIUS W., 430 Grand avenue, Brooklyn.  
Collection of shells (about 2,500).

**BUREAU OF FISHERIES**, Washington, D. C.  
Plates of Hawaiian fishes and plates of Porto Rican  
fishes.

Eight fishes, *Mistichthys hozmeneis*, and

## BUREAU OF FISHERIES—Continued.

Two fishes, *Typhlomolge rathbuni* from Lake Buhi,  
Philippine Islands.

Series of specimens and shell illustrating the Pearl  
Button Industry.

BURWELL, MRS. Charles, 176 West Eighty-ninth street,  
N. Y.

One mounted Tarpon (medallion style).

CALL, MRS. ALIDA L., David City, Neb.

One Pocket Gopher.

CALVERT, Dr. PHILIP, Academy of Natural Sciences, Philadelphia.

Seven specimens of Dragonflies.

CAUDELL, A. N., U. S. National Museum, Washington, D.C.  
Ninety specimens of Orthoptera.

CLOSE, MRS. STUART, 209 Hancock street, Brooklyn.

COCHEU, FRED C., 215 Montague street, Brooklyn.

Slab containing specimens of fossil fishes, Boonton,  
N. J.

CRANE, W. H., 352 Greene avenue, Brooklyn.

Specimens of Amblygonite, Bismuth, Kunzite from  
Pala, Cal.

DASCKE, ERICH, 806 Walnut Street, Philadelphia, Pa.

Fifty-three specimens Odonata, Diptera and Orthop-  
tera.

DAVENPORT, CHAS. B., Cold Spring Harbor, L. I.

One Chipmunk.

DAVIS, WILLIAM T., 46 Stuyvesant place, New Brighton,  
S. I.

Twenty-two specimens Orthoptera.

Seventeen specimens Neuroptera and

Five specimens Hemiptera.

Nine specimens Odonata.

DAY, GEORGE A., Brooklyn until recently.

Map of Village of Brooklyn, 1833.

FISH, LATHAM A., 121 Joralemon street, Brooklyn.

Egg of Alligator; egg of Cassowary and eggs of other birds, with small cabinet.

FRANCK, GEORGE, 1040 DeKalb avenue, Brooklyn.

Fifty-eight Butterflies.

FROST, Mrs. JOSEPHINE, 810 Washington avenue, Brooklyn.

One large Centipede and one Tarantula from Texas.

FUCHS, CHARLES, Academy of Nat. Sci., San Francisco, Cal.

Specimens of Coleoptera (about ten).

FULDA, O., 816 Broadway, N. Y.

Seven specimens of Lepidoptera.

GRAEF, EDWARD L., 58 Court street, Brooklyn.

Two specimens of rare Butterflies (*Morpho hebucu*).

GRIFFITHS, ESTATE OF W. E.

One fossil fish.

Ten minerals.

HOGG, CHARLES B., 127 St. James place, Brooklyn.

One mounted specimen of Tarpon.

JANVIER, Mrs. L. C., 198 Sixth avenue, Brooklyn.

Skull of Loggerhead Turtle.

Stuffed White Owl.

JOUTEL, L. H., 164 East 116th street, N. Y.

Eleven Butterflies.

Twenty-two specimens of Lepidoptera.

JONAS, NATHAN S. }

JONAS, DANIEL H. } Head of Alaskan Caribou.

JONAS, RALPH. }

KEAP, WILLIAM DICKSON, 340 East Eighteenth street, N. Y.

Nest of hornet.

KNAUS, WARREN, McPherson, Kansas.

Fifteen specimens Coleoptera.

**LAMB, Dr. D. S.**, "The Cumberland," Washington, D. C.  
Skull of Negro.

**LONG ISLAND SOCIETY, DAUGHTERS OF AMERICAN REVOLUTION**, through Mrs. Hamilton Ormsbee, 435 Macon street, Brooklyn.

Forty-two photographs of houses, etc., built in the U. S. prior to 1775.

**MAYER, Dr. ALFRED G.**  
Twenty Phasmids.

**MIDGLEY, Dr. J. E.**, 1125 Dean street, Brooklyn.  
Two Porcupines from Toronto, Can.

**MILLER, JOHN**, Huntington, L. I.  
Two Woodchucks in flesh and one skunk skin.

**MORGENTHALER, JACOB**, 278-284 Schermerhorn street, Brooklyn.

Piece of fossil wood from Arizona.

**MUSEUM OF COMPARATIVE ZOOLOGY**, Cambridge, Mass.  
One specimen of flying fish, in alcohol. Near Galapagos Islands.

**NEW YORK AQUARIUM.**

One Manatee in the flesh.

**NEW YORK ZOOLOGICAL SOCIETY.**

Ten specimens of Reptiles and Crabs (Ch. Mus.).

One Buffalo skeleton and skin complete.

One Florida Crocodile.

One Spider Monkey.

One Virginia Opossum.

One Harbor Seal.

One White Pelican.

One Malabar Squirrel.

One Nylghau.

One Fallow Deer.

One Long-armed Baboon.

One Emu.

One Two-toed Sloth.

**NORTH CAROLINA GARNET** Co. (through M. F. Drudy, President).

Seven large Garnet crystals, mined at Little Pine Creek, N. C.

**PALM, CHARLES**, 172 East Sixty-fourth street, N. Y.

Thirteen specimens of Coleoptera.

**PAULMIER, FRED C.**, New York State Museum, Albany, N. Y.

About four hundred Coleoptera.

**PEARSALL, RICHARD F.**, 1334 Dean street, Brooklyn.

Skin of Mole.

A few hundred specimens Coleoptera from Mexico.

Four Butterflies.

**PEAVEY, ROBERT W.**, 207 Euclid avenue, Brooklyn.

One old Squaw Duck.

One Herring Gull.

One Curlew in the flesh.

One Curlew, mounted.

One Sandpiper.

Two Golden-winged Woodpeckers in flesh.

Two birds.

**PECK, Dr. FREDERICK B.**, Lafayette College, Easton, Pa.

Four cement rocks.

**PROSPECT PARK ZOÖLOGICAL GARDEN.**

One Wolf.

One Parrot.

One Goat.

One Sooty Mangaby Monkey.

One Monkey.

One young Ocelot.

**ROURA, JOSEPH**, 244 Jefferson avenue, Brooklyn.

Specimens of Beetles.

**RUHE, LOUIS**, 248 Grand street, N. Y.

One Spurred-winged Goose.

SATTLER, CHARLES F., 350 Van Brunt street, Brooklyn.  
One old document (1735).

SHOEMAKER, E.  
Two Coleoptera.

SKINNER, CHARLES M., Brooklyn Daily Eagle.  
Spears used in the Chino-Japanese war.

SMITH, PROF. JOHN B., New Brunswick, N. J.  
Thirty-seven Butterflies.

SQUIRES, FRANK.  
One specimen native Sulphur.

STAFFORD, Mrs. VIRGINIA L., 125 St. Marks avenue, B'klyn.  
One stuffed Albatross and  
One egg of Ostrich.

STATE COMMISSIONER OF FISHERIES AND GAME, Albany,  
N. Y.  
Plates of Fishes, Birds and other animals from Report  
of State Commissioner of Fisheries and Game.

STEINMAN, Mrs. HERMANN, 1431 Bedford avenue, B'klyn.  
Two poisoned arrows; "Cocoa" bottle and carved  
spindles.

U. S. NATIONAL MUSEUM (A. E. Schwartz), Washington,  
D. C.  
Forty specimens of Coleoptera.  
One Peridotite breccia.  
Specimens of Foraminifera, dredged by Str. "Alba-  
tross."

WILLIAMSON, J. GILLIARD, Jr., 406 Sumner avenue, Bklyn.  
Twenty mounted birds and bird skins.

Wood, Mrs. J. L., 735 Lafayette avenue, Brooklyn.  
One Hornet's Nest.

WOODWARD, Col. ROBERT B., 118 Pierrepont st., Brooklyn.  
Thirteen mounted specimens, illustrating flight.

ZABRISKIE, Rev. Dr. J. L., 28 Regent place, Flatbush.

Underground nest (combs) of *Vespa germanisa* and  
Eight specimens of wasps.

Collection of Fungi. About 400 species mounted.

GIFTS. CHILDREN'S MUSEUM.

AKHURST, Mrs. MARGARET, 78 Ashland place, Brooklyn.

Specimens of Continental and Confederate scrip.

AMERICAN LITHOGRAPH Co., Nineteenth street and Fourth  
avenue, N. Y.

Lithograph stone and three small lithographs (Ch.  
Mus.).

BARRY, Master JOHN, 230 Herkimer street, Brooklyn.

One print of U. S. Battleship "Kearsage" and copy of  
newspaper, N. Y. Recorder, 1894 or '95, giving date  
of ship and account of battle between the "Kearsage"  
and "Alabama."

One Confederate \$50 bill.

BEERS, E. LE GRAND, 131 Remsen street, Brooklyn.

One pair rubbers (original style), made of pure rubber.

BLACKBURNE, CHARLES W., Brooklyn.

Bank note (1 franc), Martinique, St. Pierre.

COSGROVE, JOHN, 907 Prospect place, Brooklyn.

One mounted Rabbit (Ch. Mus.).

CURTIS, Master AUSTIN, 64 Kingston avenue, Brooklyn.

One Maryland Yellow-throat (Ch. Mus.).

DIXON CRUCIBLE COMPANY, JOSEPH, Jersey City, N. J.

Three specimens Graphite, Ticonderoga, Ceylon, Ger-  
many.

Five crucibles of graphite.

Lead pencil exhibit, consisting of sixteen specimens  
(Ch. Mus.).

DODGE, Miss ALICE.

Thirty-three specimens Hymenoptera and Diptera.

**DORFLINGER, C. & SONS**, White Mills, Pa.

Materials in making glass.

**LANCASTER**, Miss, 80 Willoughby street, Brooklyn.

One Oven bird (living) (Ch. Mus.).

**LEHIGH UNIVERSITY**, Bethlehem, Pa.

One specimen each of Limestone, Coke, Iron ore, Pig iron;

Three pieces slag (Ch. Mus.).

**PITTSBURGH COAL CO.**, Pittsburgh, Pa.

Three photographs of coal mines, showing different stages in mining coal.

**PLYMPTON**, Miss D. D., 127 Herkimer street, Brooklyn.

One Yellow spotted Salamander.

**SCHEUBER, A.**, 218 Eleventh street, Hoboken.

Speciment of carved Soapstone.

Fifty-seven specimens exotic coleoptera.

Twenty species exotic Lepidoptera, Hemiptera, etc.

One specimen Onomarchus cretus, Katydid from Anam, Asia.

**SMITH, ORLANDO** (Smith's Granite Works), Westerly, R. I.

Four polished granite disks (Ch. Mus.).

**TAYLOR, JAMES**, 297 McDonough street, Brooklyn.

One Alligator.

**VERMONT MARBLE CO.**, Proctor, Vt.

Five photographs of a Marble Quarry (Ch. Mus.).

Three specimens of polished marble.

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Miss CHARLOTTE L. RUSE .....	2.00
Rev. J. TOWNSEND RUSSELL .....	25.00
Mrs. EUGENE SAMMIS .....	5.00
Mrs. ANNIE R. SANBORN .....	5.00
Miss H. WILHELMINA SCHENCK .....	5.00
CHARLES A. SCHIEREN .....	100.00
CHARLES J. SCHLEGEL .....	5.00
L. SCHMIDT .....	5.00
Miss DOROTHY L. SCHMIDT .....	10.00
Miss FRANCIS SCHROEDER .....	2.00
BENJAMIN F. SEAVER .....	15.00
EDWARD B. SHALLOW .....	2.00
ROBERT A. SHAW .....	10.00
Mrs. HENRY K. SHELDON .....	200.00
EDWARD M. SHEPARD .....	100.00
HARRY A. SHIPLEY .....	1.00
Mrs. JULIA G. SLACK .....	140.00
JAMES A. SMITH .....	10.00
C. FRED. SPEIDEL .....	5.00
Miss FRANCES A. P. SPURWAY .....	3.00
GEORGE T. STEBBINS .....	5.00
SANFORD H. STEELE .....	100.00
ALFRED H. STEVENS .....	10.00
FRANCIS H. STUART, M.D. .....	5.00
HERMAN STUTZER .....	100.00
ANDREW T. SULLIVAN .....	50.00
Mrs. ISAAC T. SWEZEY .....	5.00
Mrs. CORINNE C. SWITZER .....	5.00
Miss ELIZABETH TILLMAN .....	2.00
HENRY TITUS .....	5.00
Mrs. JAMES L. TRUSLOW .....	10.00
SILAS TUTTLE .....	25.00
JUDAH B. VOORHEES .....	20.00
GEORGE R. WESTBROOK, M.D. .....	5.00
ALFRED T. WHITE .....	500.00
Miss FRANCES E. WHITE .....	500.00

Miss HARRIET H. WHITE .....	\$500.00
FRANK A. WILLARD .....	5.00
EMIL J. WINZER .....	12.00
Miss MARY B. WOODWARD .....	20.00
ROBERT B. WOODWARD .....	500.00
Mrs. WILLIAM H. ZIEGLER .....	5.00
J. H. .....	5.00
R. M. F. .....	3.00
A friend .....	2.00
Mrs. F. .....	2.00
L. E. L. .....	5.00
M. A. O. .....	5.00
<hr/>	
Total .....	\$15,163.25

## **SPECIAL ENDOWMENT FUNDS OF THE INSTITUTE**

### **THE AUGUSTUS GRAHAM FUNDS.**

(1) "I give and bequeath unto the Brooklyn Institute the sum of Five Thousand Dollars, to be invested in the interest of the same, to be applied to the purchase of apparatus, and to the establishment and support of a course of free lectures annually, upon mechanics, natural philosophy and science, for the youth of the City of Brooklyn.

(2) "Also the further sum of Five Thousand Dollars, to be invested as aforesaid, the income to be applied to the purchase of specimens of natural history, and in causing free lectures to be delivered upon the subject of Natural History, from time to time, and the benefit of the Natural History Department of the Brooklyn Institute; and any surplus of said income to be applied to the general objects of said Institute.

(3) "Also the sum of Five Thousand Dollars, to be invested as aforesaid, and to apply the income thereof as follows: One-half toward the support of the School of Design, and the other half annually to a specimen of the Fine Arts, to be executed by a native artist, and kept in said Institute for the purpose of forming a gallery of Fine Arts.

(4) "Also the sum of Twelve Thousand Dollars, to be invested as aforesaid, the income to be applied to the delivery of Sunday Evening Lectures at such time as may be deemed advisable by the Directors or Trustees on The Power, Wisdom and Goodness of God, as Manifested in His Works."

### **THE JOHN B. WOODWARD MEMORIAL FUND.**

"I hereby give and grant unto the Brooklyn Institute of Arts and Sciences the sum of Twenty-five Thousand Dollars in memory of my brother, JOHN B. WOODWARD, to be by it held as a separate fund, apart from all other funds

of the Institute, to be securely invested and reinvested by its officers under the advice and direction of its Board of Trustees, the entire income of which is to be devoted to the encouragement of American Art, by the purchase, from time to time, of oil paintings of artists practicing their profession in the United States of America, preference being given to paintings exhibited in some regular exhibition of the work of artists, such as the National Academy of Design, the Society of American Artists, the Academy of Fine Arts in Philadelphia, or other similar exhibitions throughout the country; the selection and purchases to be made by the President and the Art Committee of the Institute with the approval of the Board of Trustees, or of its Executive Committee."—Extract from Deed of Gift by Col. ROBERT B. WOODWARD.

#### THE ELLA C. WOODWARD MEMORIAL FUND.

"And I hereby give and grant unto the Brooklyn Institute of Arts and Sciences the further like sum of Twenty-five Thousand Dollars, in memory of my wife, ELLA C. WOODWARD, to be by it held and invested in like manner, and the entire income devoted to the purchase from time to time of objects of art, vertu or antiquity, the selection and purchases to be made by the President and the Art Committee of the Institute, with the approval of the Board of Trustees or of its Executive Committee."—Extract from Deed of Gift by Col. ROBERT B. WOODWARD.

NOTE.—The two funds created by Col. WOODWARD are together known as the WOODWARD MEMORIAL FUNDS.

#### THE FREDERICK LOESER FUND.

Mr. FREDERICK LOESER, of Stuttgart, Germany, donated in 1902 the sum of \$10,000 as a Trust Fund, to the Brooklyn Institute of Arts and Sciences, the interest to be used for the purchase of photographs and casts of famous works of Art (Paintings, Sculptures and Architecture), from

originals in various Museums, private collections in cities of Europe and America. In case at some future time the Museum should be adequately supplied with these, said interest may be used in the purchase of original works of Art, such as paintings, porcelains, bibelots, antiques, etc.

#### THE HENRY K. SHELDON FUND.

Extract from the provisions of the will of HENRY K. SHELDON:

"And I give and bequeath to The Brooklyn Institute of Arts and Sciences in the City of Brooklyn, the sum of Ten Thousand Dollars (\$10,000) in trust, the income arising therefrom to be used by the said Institute towards paying any expenses the said Institute may incur for the Brooklyn Philharmonic Society, and for giving Chamber Music Concerts, which are to be given for the culture of music, and in rendering the highest standard of music which will be educational. Should, however, the Brooklyn Philharmonic Society be dissolved, or the Chamber Music Concerts be discontinued, then the said bequest of Ten Thousand Dollars (\$10,000) shall revert to and form part of my estate."

CONDENSED SUMMARY FROM THE REPORT OF THE  
TREASURER

FOR THE YEAR ENDING MAY 1, 1905.

May 1, 1904—Cash on hand—in banks..... \$7,340 18

RECEIPTS.

May 1, 1904, to May 1, 1905.

Institute Associate Funds Account—

Including amounts received for Annual  
Dues from Associate Members, from  
Pedagogical and other classes, special  
illustrated and other Lectures, Dramatic  
Readings, Philharmonic, Oratorio and  
other Concerts, etc..... \$79,692 11

Biological Laboratory at

Cold Spring Harbor, L. I.—

Special contributions, tuitions, etc..... 2,367 27

General Funds Account—

Including income from investments of  
Endowment Funds, initiation fees of  
new members, etc..... 11,462 56

Investment Funds Account—

Including mainly payments on account  
of mortgages due and passed through  
this account for reinvestment..... 19,450 00

Endowment Fund Account—

Bequests received during the year:

Estate of William Frederick

Sebert, dec'd ..... \$500 00

Estate of Charles A. Hoyt,  
dec'd ..... 1,000 00

Estate of Miss Anna

B. Lott, dec'd. .... \$5,000 00

Less Transfer Tax.. 237 50

..... \$4,762 50

Estate of James A. H. Bell,  
dec'd (\$6,400.00 received in  
1902), balance .....

6,293 41

Law Lectures for Women by

Women. Special fund con-  
tributed by women of Brook-  
lyn, Mrs. Mary L. Beers,  
Chairman .....

1,100 00

..... 13,655 91

Museums—

Maintenance of Museums....

67,694 15

## Museum Collection Fund—

Contributions during the year toward special fund for the purchase of exhibits in art and science for the Museum ..... \$13,321 25

## Special Funds—

## Woodward Memorial Funds—

Principal amount \$50,000.

Income received ..... \$2,274 09

## Frederick Loeser Art Fund—

Principal amount \$10,000.

Income received ..... 460 51

## Henry K. Sheldon Fund—

Principal amount \$9,500.

Income received ..... 600 00

3,334 60

Total receipts for the fiscal year ..... \$210,977 85

Grand Total ..... \$218,318 03

## DISBURSEMENTS.

*May 1, 1904, to May 1, 1905.*

## Associate Funds Account—

Covering payment of Lecturers, Dramatic Readings, talent for Song Recitals, Chamber Music, Boston Symphony Orchestra and Other Concerts, Instructors of Pedagogical and other class salaries, sundry rents for special reserved seat events, printing, etc. .... \$71,742 31

## Biological Laboratory

at Cold Spring Harbor, L. I.—

Including salaries of the corps of Instructors for the season 1904, for general supplies, care of Dormitories, etc. .... 1,931 79

## General Funds Accounts—

Including payments for rents of lecture halls, for members' weekly-ticket events, general offices of management, rooms for pedagogical classes, Department of Photography, etc.; management salaries, etc. .... 10,707 41

## Graham Library Fund—

Purchase of books for the library of Children's Museum, Bedford Park. ....

627 83

## Graham Sunday Evening Lecture Fund—

Annual course of lectures on the Wisdom, Power and Goodness of God as manifested in His works. ....

417 30

Investment Funds Account—	
Being amount of sundry investments in first mortgages on New York City real estate, etc. ....	\$31,036 44
Museums maintenance—	
Including salaries of Curators and their assistants, Taxidermists, Librarians, Stenographers, Attendants, Engineers and Mechanics, for coal and sundry supplies, etc., during the fiscal year....	67,694 15
Law Lectures for Women by Women, fund invested .....	1,000 00
Museum Collection Fund—	
Being payments for Works of Art, and Archæological, Ethnological and other Specimens, etc. ....	9,137 66
George A. Hearn Art Fund—	
Being payments for special Photo- graphs, Carbons and Gravures of Ruins of Forum, Pantheon, Colosseum, etc., and Photo Enlargements sent to Rome .....	473 15
Woodward Memorial Funds—	
John B. Woodward Memorial Fund. Purchase of paintings (the work of na- tive artists).	
Ella C. Woodward Memorial Fund. Purchase of articles of vertu and an- tiquity .....	
	2,558 00
Total Disbursements for the fiscal year.....	\$197,326 04
Cash on hand May 1, 1905.....	20,991 99
Grand Total .....	<u>\$218,318 03</u>

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**Endowment, Permanent and other Funds, May 1, 1905.**

Endowment, for General Purposes ..... \$228,823 99

Augustus Graham Funds—

For Apparatus and Lectures on Mechanics, Natural Science, etc. ....	5,000 00
" Specimens and Lectures, Natural History, etc. ....	5,000 00
" School of Design and Specimens of Fine Arts by Native Artists, etc....	5,000 00
" Sunday Evening Lectures—"Power, Wisdom and Goodness of God as Manifested in His Works".....	12,000 00

William H. Carey Fund—	
For support of Library .....	\$10,000 00
Eastern District Library Association—	
For Annual Memberships, Scholars of Public Schools .....	3,894 73
Law Lectures for Women by Women.....	1,100 00
Henry K. Sheldon Fund—	
For Promotion of Philharmonic and Chamber Music Concerts .....	9,500 00

**SPECIAL MUSEUM FUNDS.**

Income only to be used.

John B. Woodward Memorial Fund—	
For the encouragement of American Art, purchase of oil paintings of artists practising their profession in the United States, preference being given to paintings exhibited in some regular exhibition of the work of artists .....	25,000 00
Ella C. Woodward Memorial Fund—	
For the purchase of objects of art, vertu and antiquity .....	25,000 00
Frederick Loeser Art Fund—	
For purchase of photographs and casts of famous works of art (painting, sculptures and architecture) from originals in various museums or private collections in Europe and America..	10,000 00

Cash in banks, unexpended balances, general and specific purposes .....	20,991 99
	<u>\$361,310 71</u>

**INVESTMENTS:**

First mortgage on real estate in New York City .....	\$273,098 94
Other investments, including loan of \$10,000 to the Museum Fund Account..	67,219 78
Cash in Banks .....	20,991 99
	<u>\$361,310 71</u>



BROOKLYN BUSINESS DIRECTORY

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# The Peoples Trust Company

Capital and Surplus, \$2,700,000

Main Office . . . . . 172 MONTAGUE ST.  
Bedford Branch . . . . . BEDFORD AVE. & HALSEY ST.  
Wallabout Branch . . . . . CLINTON & MYRTLE AVES.  
Market Branch . . . . . 47 WASHINGTON AVE.

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Edward Johnson

### VICE-PRESIDENTS

J. G. Dettmer

Horace J. Morse

### SECRETARY

Charles A. Boody

### ASSISTANT SECRETARIES

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Henry M. Heath

William A. Fischer

John T. Williams

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David A. Boody  
Amory S. Carnhart  
William M. Cole  
Wm. C. Courtney  
J. G. Dettmer  
Charles M. Englis  
William H. Good  
Edward M. Grout  
William B. Hill  
Edward Johnson

Solomon W. Johnson  
James Jourdan  
Adrian T. Kiernan  
W. Eugene Kimball  
James McMahon  
Horace J. Morse  
Herbert L. Pratt  
Clarence W. Seamans  
Howard M. Smith  
Casimir Tag  
George P. Tangeman

Wm. H. Ziegler

*Interest Allowed on Deposits*

## BROOKLYN BUSINESS DIRECTORY

# Long Island Loan and Trust Co.

"TEMPLE BAR,"

BROOKLYN

NEW YORK

**CAPITAL.** \$1,000,000  
**Surplus and Profits, Over** 1,700,000

**DEPARTMENTS:** Banking. Trust. Safe Deposit.  
Letters of Credit. Foreign Exchange.  
Interest Allowed on Daily Balances

EDWARD MERRITT, President

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DAVID G. LEGGET, Second Vice-President

FREDERICK T. ALDRIDGE, Secretary

WILLARD P. SCHENCK, Assistant Secretary

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Henry F. Noyes

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Frank L. Babbott

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Martin Jost

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Seymour L. Husted, Jr.

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Frederick T. Aldridge

Walter St. John Benedict

George S. Ingraham

William H. Childs

## KINGS COUNTY TRUST COMPANY

342, 344 & 346 Fulton St., Brooklyn, N. Y.

**CAPITAL, \$500,000.00**

**SURPLUS, \$1,000,000.00**

Undivided Profits, \$412,311.00

### OFFICERS

JULIAN D. FAIRCHILD.....President

WILLIAM HARKNESS.....Vice President

D. W. McWILLIAMS.....Vice President

HIERMON MORRIS.....Secretary

THOMAS BLAKE, Assistant Secretary

### *Kings County Trust Company*

Acts as Executor, Administrator, Trustee, Guardian, Receiver, Committee of the Insane, Transfer Agent, and Registrar for Corporations. Designated by the general terms of the Supreme and City Courts as a Legal Depository for Estate Funds.

### TRUSTEES

John Arbuckle,

William Harkness.

Cord Meyer.

A. Abraham,

Joseph Huber.

Charles A. O'Donohue.

Geo. V. Brower,

H. K. Knapp.

Charles E. Perkins.

Roswell Eldridge,

Whitman W. Kenyon.

Dick S. Ramsay.

Julian D. Fairchild,

Joseph Liebmann.

H. B. Scharmann.

Julian P. Fairchild,

Lewis Luckenbach.

Wm. V. R. Smith.

Joseph P. Grace,

D. W. McWilliams.

W. M. Van Anden.

John Good,

James McGovern.

John J. Williams.

Interest allowed on daily balances. Special rates on time deposits.

## BROOKLYN BUSINESS DIRECTORY

### The NASSAU TRUST COMPANY

BROADWAY AND BEDFORD AVE.

356-358 FULTON STREET

**Capital and Undivided Profits over \$1,000,000.00**

**INTEREST PAID ON DAILY BALANCES, AND SPECIAL  
RATES ON TIME DEPOSITS**

Accounts of Individuals, business firms, corporations, estates, etc., invited  
ANDREW T. SULLIVAN, - - - - - President  
WILLIAM DICK, - - - - - Vice-Presidents  
JOHN TRUSLOW, }  
HARRY F. BURNS, - - - - - Secretary  
C. WOODWORTH, }  
FRANCIS WEEKES, } Asst. Secretaries

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F. D. Molenhauer	James A. Sperry	F. W. Wurster
Henry Roth	Rob't P. Lethbridge	Edward T. Horwill
John H. McCooey	Andrew T. Sullivan	N. F. Brady

### HAMILTON TRUST COMPANY

No. 191 MONTAGUE STREET

**Capital, - - - - - \$500,000.00  
Surplus and undivided Profits, - - \$1,122,137.88**

Interest on Accounts subject to Check. Special Rates on Time Deposits.

**A GENERAL TRUST CO. BUSINESS TRANSACTED**

#### OFFICERS

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WILLIAM BERRI	Vice-President
W. C. HUMSTONE	2d Vice-President
GEORGE HADDEN	3d Vice-Pres. and Secy.
ROB'T. S. GIRLING	Assistant Secretary

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Ezra D. Bushnell	George Hadden	Fred. H. Pouch
David F. Butcher	John R. Hegeman	F. Sullivan Smith
Eversley Childs	Hy. E. Hutchinson	Millard F. Smith
Charles Cooper	W. C. Humstone	Wm. V. R. Smith
Silas B. Dutcher	John C. McGuire	Timothy L. Woodruff
John Ditmas, Jr.	Eugene F. O'Connor	Henry N. Whitney

## BROOKLYN BUSINESS DIRECTORY

### MECHANICS BANK,

Established 1852

Court Street, cor. Montague Opposite City Hall BROOKLYN

**CAPITAL AND SURPLUS Over . . . . . \$1,900,000.00**  
**TOTAL RESOURCES Over . . . . . \$14,000,000.00**

OFFICERS

GEORGE W. CHAUNCEY, President      HORACE C. DUVAL,  
CHARLES E. WHEELER, Cashier      J. T. E. LITCHFIELD,      } Vice-Presidents  
CHARLES G. BALMANNO,

**FIFTH AVENUE BRANCH, . . . . .** Fifth Ave. and Ninth St.  
ISAAC SIMONSON,      Cashier

**SCHERMERHORN BRANCH, . . . . .** Schermerhorn St. near Flatbush Ave.  
ARTHUR P. SMITH,      Cashier

**CENTRAL BRANCH, . . . . .** Flatbush, Fourth, and Atlantic Aves.  
U. CONDIT VARICK,      Cashier

**TWENTY-SIXTH WARD BRANCH, . . . . .** Atlantic and Georgia Aves.  
JAMES K. ALEXANDER,      Cashier

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James Jourdan	Timothy S. Williams	George W. Chauncey
William Baylis	Daniel D. Whitney	Joseph E. Owens
Daniel Chauncey	James Raymond	Frank A. Selle

### The Nassau National Bank OF BROOKLYN

Organized, January, 1859      Garfield Building

**Capital, \$300,000      Surplus, \$800,000**

Designated Depository of the United States

#### Accounts Solicited

Every facility furnished Depositors which their balances and condition  
justify

THOMAS T. BARR, Pres.

WILLIAM A. NASH, Vice-Pres.

EDGAR McDONALD, Cashier.

JOHN W. SEAMAN, Asst. Cashier.

DANIEL V. B. HEGEMAN, Asst. Cashier.

DIRECTORS

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Wm. M. Ingraham.  
Rob't B. Woodward.  
Frank Bailey.

Crowell Hadden.  
Carroll H. De Silver.  
Thomas T. Barr.  
Chas. A. Schieren.

Frank Lyman.  
James H. Taylor.  
Alex. M. White, Jr.  
Wm. A. Nash.

Manufacturers', Merchants and Personal Accounts are Solicited